

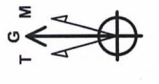
**CASE NO. 23426**

**APPLICATION OF BTA OIL PRODUCERS, LLC TO RESCIND APPROVAL  
OF FOUR APPLICATIONS FOR PERMIT TO DRILL ISSUED TO TEXAS STANDARD  
OPERATING NM LLC, LEA COUNTY, NEW MEXICO**

**EXHIBIT LIST OF TEXAS STANDARD OPERATING, LLC (In Seven Parts)**

1. Landman's Affidavit and Attachments A through D
2. Engineer's Affidavit with Attachments A-1 and A-2
  - 2(a). Attachments A-3 and A-4 to Exhibit 2
  - 2(b). Attachments B-1 and B-2 to Exhibit 2
  - 2(c). Attachments B-3 and B-4 to Exhibit 2
  - 2(d). Attachments C-1 through C-3 to Exhibit 2
  - 2(e). Attachments D-1 through D-3 and Attachment E to Exhibit 2





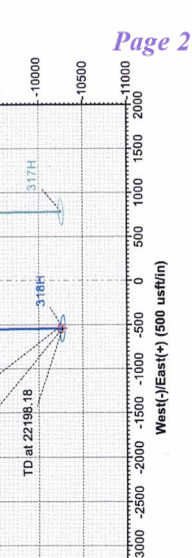
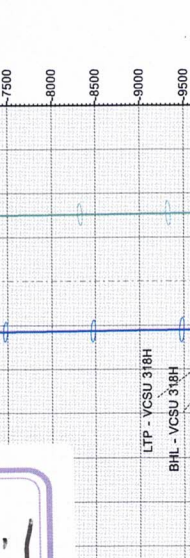
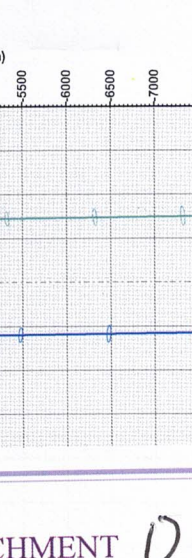
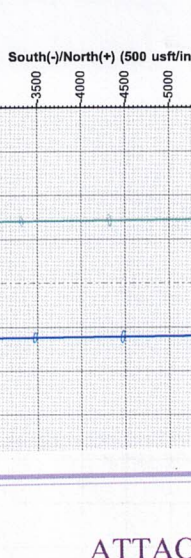
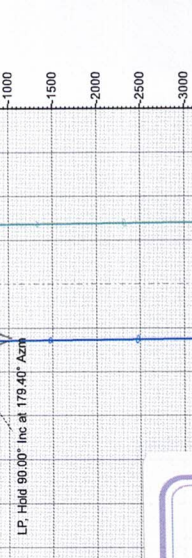
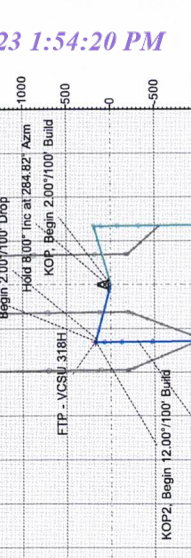
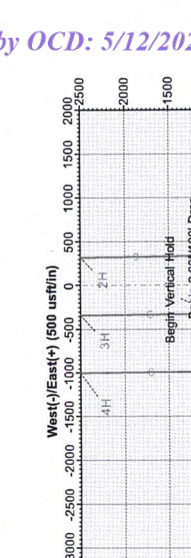
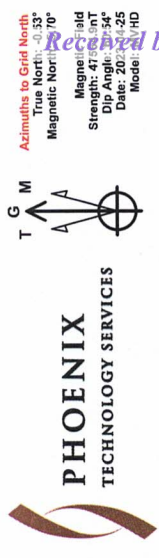
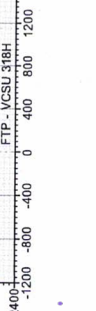
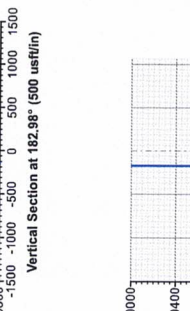
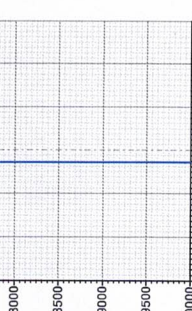
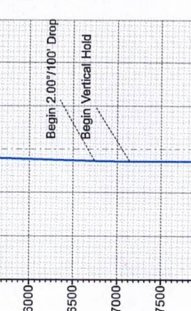
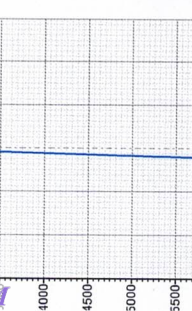
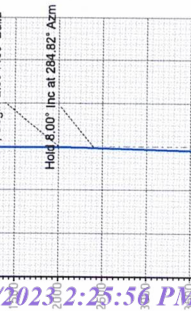
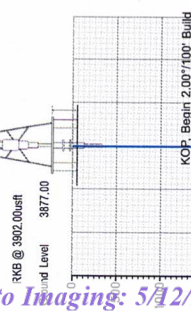
WELL DETAILS		SECTION DETAILS									
+N-S	0.00	+E-W	0.00								
Ground Level	3877.00	Easting	839102.24								
Longitude	103° 21' 50.341680 W	Latitude	32° 49' 36.781160 N								
<b>SECTION DETAILS</b>											
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Diag	Frace	Vsect	Target	Annotation
1	2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	KOP - Begin 2.00°/100' Build
2	2400.00	8.00	284.82	2388.71	7.13	-26.95	2.00	284.82	5.00	0.00	Begin 2.00°/100' Azm
3	2400.00	8.00	284.82	2388.71	7.13	-26.95	2.00	284.82	5.00	0.00	Begin 2.00°/100' Drop
4	6785.98	8.00	284.82	6741.99	163.26	-617.07	0.00	0.00	-130.91	0.00	Begin Vertical Hold
5	7185.98	0.00	0.00	7140.70	170.39	-644.02	2.00	180.00	-136.63	0.00	KOP2 - Begin 12.00°/100' Build
6	11482.22	0.00	0.00	11437.54	170.39	-644.02	0.00	0.00	-136.63	0.00	KOP2 - Hold 90.00° Inc at 179.40° Azm
7	12232.82	90.00	179.40	11915.00	-307.05	-639.06	12.00	179.40	339.91	0.00	LP - Hold 90.00° Inc at 179.40° Azm
8	22198.18	90.00	179.40	11915.00	-10271.87	-535.57	0.00	0.00	10285.82	0.00	BHL - VCSU 318H TD at 22198.18

DESIGN TARGET DETAILS	
Name	BHL - VCSU 318H
Latitude	32° 47' 55.202689 N
Longitude	103° 21' 57.718817 W
Easting	838566.67
Northing	55546.80
UTM Zone	18Q
UTM Easting	838566.67
UTM Northing	55546.80
UTM Zone	18Q
UTM Datum	WGS 84
UTM Spheroid	WGS 84
UTM Projection	UTM
UTM Units	Meters
UTM Datum	WGS 84
UTM Spheroid	WGS 84
UTM Projection	UTM
UTM Units	Meters

Map System: US State Plane 1983  
 Datum: North American Datum 1983  
 Ellipsoid: GRS 1980  
 Zone Name: New Mexico Eastern Zone  
 Local Origin: Well 318H, Grid North  
 Latitude: 32° 49' 36.781160 N  
 Longitude: 103° 21' 50.341680 W  
 Grid East: 839102.24  
 Grid North: 665918.87  
 Scale Factor: 1.000

Geomagnetic Model: MVHD  
 Sample Date: 25-Apr-23  
 Magnetic Declination: 60.538°  
 Dip Angle: 60.538°  
 Magnetic Field Strength: 475664.887632689T

To convert a Magnetic Direction to a Grid Direction, Add 5.705°  
 To convert a Magnetic Direction to a True Direction, Add 6.230° East  
 To convert a True Direction to a Grid Direction, Subtract 0.526°



**ATTACHMENT D-1**





**PHOENIX**  
TECHNOLOGY SERVICES

## **Texas Standard Oil**

Lea County, NM (NAD 83 - NME)  
Vindicator Caynon State Unit  
318H

OH

Plan: Plan 1 04-26-23

## **Standard Planning Report**

26 April, 2023

**TEXAS STANDARD OIL**





<b>Database:</b>	USAEDMDB	<b>Local Co-ordinate Reference:</b>	Well 318H
<b>Company:</b>	Texas Standard Oil	<b>TVD Reference:</b>	RKB @ 3902.00usft
<b>Project:</b>	Lea County, NM (NAD 83 - NME)	<b>MD Reference:</b>	RKB @ 3902.00usft
<b>Site:</b>	Vindicator Caynon State Unit	<b>North Reference:</b>	Grid
<b>Well:</b>	318H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan 1 04-26-23		

<b>Project</b>	Lea County, NM (NAD 83 - NME)		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	New Mexico Eastern Zone		

<b>Site</b>	Vindicator Caynon State Unit				
<b>Site Position:</b>		<b>Northing:</b>	665,919.12 usft	<b>Latitude:</b>	32° 49' 36.782890 N
<b>From:</b>	Map	<b>Easting:</b>	839,132.24 usft	<b>Longitude:</b>	103° 21' 49.990090 W
<b>Position Uncertainty:</b>	0.00 usft	<b>Slot Radius:</b>	13-3/16 "		

<b>Well</b>	318H					
<b>Well Position</b>	<b>+N/-S</b>	0.00 usft	<b>Northing:</b>	665,918.67 usft	<b>Latitude:</b>	32° 49' 36.781160 N
	<b>+E/-W</b>	0.00 usft	<b>Easting:</b>	839,102.24 usft	<b>Longitude:</b>	103° 21' 50.341681 W
<b>Position Uncertainty</b>	1.00 usft		<b>Wellhead Elevation:</b>	usft	<b>Ground Level:</b>	3,877.00 usft
<b>Grid Convergence:</b>	0.526 °					

<b>Wellbore</b>	OH				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	MVHD	2023-04-25	6.230	60.538	47,564.88763269

<b>Design</b>	Plan 1 04-26-23			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	182.98

<b>Plan Survey Tool Program</b>	<b>Date</b>	2023-04-26		
<b>Depth From (usft)</b>	<b>Depth To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Remarks</b>
1	0.00	22,198.18	Plan 1 04-26-23 (OH)	MWD+HRGM OWSG MWD + HRGM

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.000	
2,400.01	8.00	284.82	2,398.71	7.13	-26.95	2.00	2.00	0.00	284.819	
6,785.98	8.00	284.82	6,741.99	163.26	-617.07	0.00	0.00	0.00	0.000	
7,185.98	0.00	0.00	7,140.70	170.39	-644.02	2.00	-2.00	0.00	180.000	
11,482.82	0.00	0.00	11,437.54	170.39	-644.02	0.00	0.00	0.00	0.000	
12,232.82	90.00	179.40	11,915.00	-307.05	-639.06	12.00	12.00	0.00	179.405	
22,198.18	90.00	179.40	11,915.00	-10,271.87	-535.57	0.00	0.00	0.00	0.000	BHL - VCSU 318H





<b>Database:</b>	USAEDMDB	<b>Local Co-ordinate Reference:</b>	Well 318H
<b>Company:</b>	Texas Standard Oil	<b>TVD Reference:</b>	RKB @ 3902.00usft
<b>Project:</b>	Lea County, NM (NAD 83 - NME)	<b>MD Reference:</b>	RKB @ 3902.00usft
<b>Site:</b>	Vindicator Caynon State Unit	<b>North Reference:</b>	Grid
<b>Well:</b>	318H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan 1 04-26-23		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>KOP, Begin 2.00°/100' Build</b>										
2,100.00	2.00	284.82	2,099.98	0.45	-1.69	-0.36	2.00	2.00	0.00	0.00
2,200.00	4.00	284.82	2,199.84	1.78	-6.75	-1.43	2.00	2.00	0.00	0.00
2,300.00	6.00	284.82	2,299.45	4.01	-15.17	-3.22	2.00	2.00	0.00	0.00
2,400.00	8.00	284.82	2,398.70	7.13	-26.95	-5.72	2.00	2.00	0.00	0.00
2,400.01	8.00	284.82	2,398.71	7.13	-26.95	-5.72	2.00	2.00	0.00	0.00
<b>Hold 8.00° Inc at 284.82° Azm</b>										
2,500.00	8.00	284.82	2,497.73	10.69	-40.41	-8.57	0.00	0.00	0.00	0.00
2,600.00	8.00	284.82	2,596.76	14.25	-53.86	-11.43	0.00	0.00	0.00	0.00
2,700.00	8.00	284.82	2,695.78	17.81	-67.32	-14.28	0.00	0.00	0.00	0.00
2,800.00	8.00	284.82	2,794.81	21.37	-80.77	-17.14	0.00	0.00	0.00	0.00
2,900.00	8.00	284.82	2,893.84	24.93	-94.23	-19.99	0.00	0.00	0.00	0.00
3,000.00	8.00	284.82	2,992.86	28.49	-107.68	-22.84	0.00	0.00	0.00	0.00
3,100.00	8.00	284.82	3,091.89	32.05	-121.13	-25.70	0.00	0.00	0.00	0.00
3,200.00	8.00	284.82	3,190.92	35.61	-134.59	-28.55	0.00	0.00	0.00	0.00
3,300.00	8.00	284.82	3,289.94	39.17	-148.04	-31.41	0.00	0.00	0.00	0.00
3,400.00	8.00	284.82	3,388.97	42.73	-161.50	-34.26	0.00	0.00	0.00	0.00
3,500.00	8.00	284.82	3,488.00	46.29	-174.95	-37.12	0.00	0.00	0.00	0.00
3,600.00	8.00	284.82	3,587.02	49.85	-188.41	-39.97	0.00	0.00	0.00	0.00
3,700.00	8.00	284.82	3,686.05	53.41	-201.86	-42.82	0.00	0.00	0.00	0.00
3,800.00	8.00	284.82	3,785.08	56.97	-215.32	-45.68	0.00	0.00	0.00	0.00
3,900.00	8.00	284.82	3,884.10	60.53	-228.77	-48.53	0.00	0.00	0.00	0.00
4,000.00	8.00	284.82	3,983.13	64.09	-242.23	-51.39	0.00	0.00	0.00	0.00
4,100.00	8.00	284.82	4,082.16	67.65	-255.68	-54.24	0.00	0.00	0.00	0.00
4,200.00	8.00	284.82	4,181.18	71.21	-269.13	-57.10	0.00	0.00	0.00	0.00
4,300.00	8.00	284.82	4,280.21	74.77	-282.59	-59.95	0.00	0.00	0.00	0.00
4,400.00	8.00	284.82	4,379.24	78.33	-296.04	-62.80	0.00	0.00	0.00	0.00
4,500.00	8.00	284.82	4,478.26	81.88	-309.50	-65.66	0.00	0.00	0.00	0.00
4,600.00	8.00	284.82	4,577.29	85.44	-322.95	-68.51	0.00	0.00	0.00	0.00
4,700.00	8.00	284.82	4,676.32	89.00	-336.41	-71.37	0.00	0.00	0.00	0.00
4,800.00	8.00	284.82	4,775.34	92.56	-349.86	-74.22	0.00	0.00	0.00	0.00
4,900.00	8.00	284.82	4,874.37	96.12	-363.32	-77.08	0.00	0.00	0.00	0.00
5,000.00	8.00	284.82	4,973.40	99.68	-376.77	-79.93	0.00	0.00	0.00	0.00
5,100.00	8.00	284.82	5,072.42	103.24	-390.23	-82.78	0.00	0.00	0.00	0.00
5,200.00	8.00	284.82	5,171.45	106.80	-403.68	-85.64	0.00	0.00	0.00	0.00
5,300.00	8.00	284.82	5,270.48	110.36	-417.13	-88.49	0.00	0.00	0.00	0.00
5,400.00	8.00	284.82	5,369.51	113.92	-430.59	-91.35	0.00	0.00	0.00	0.00
5,500.00	8.00	284.82	5,468.53	117.48	-444.04	-94.20	0.00	0.00	0.00	0.00
5,600.00	8.00	284.82	5,567.56	121.04	-457.50	-97.06	0.00	0.00	0.00	0.00
5,700.00	8.00	284.82	5,666.59	124.60	-470.95	-99.91	0.00	0.00	0.00	0.00
5,800.00	8.00	284.82	5,765.61	128.16	-484.41	-102.76	0.00	0.00	0.00	0.00
5,900.00	8.00	284.82	5,864.64	131.72	-497.86	-105.62	0.00	0.00	0.00	0.00
6,000.00	8.00	284.82	5,963.67	135.28	-511.32	-108.47	0.00	0.00	0.00	0.00
6,100.00	8.00	284.82	6,062.69	138.84	-524.77	-111.33	0.00	0.00	0.00	0.00
6,200.00	8.00	284.82	6,161.72	142.40	-538.23	-114.18	0.00	0.00	0.00	0.00
6,300.00	8.00	284.82	6,260.75	145.96	-551.68	-117.04	0.00	0.00	0.00	0.00
6,400.00	8.00	284.82	6,359.77	149.52	-565.14	-119.89	0.00	0.00	0.00	0.00
6,500.00	8.00	284.82	6,458.80	153.08	-578.59	-122.74	0.00	0.00	0.00	0.00
6,600.00	8.00	284.82	6,557.83	156.64	-592.04	-125.60	0.00	0.00	0.00	0.00
6,700.00	8.00	284.82	6,656.85	160.20	-605.50	-128.45	0.00	0.00	0.00	0.00
6,785.98	8.00	284.82	6,741.99	163.26	-617.07	-130.91	0.00	0.00	0.00	0.00





<b>Database:</b>	USAEDMDB	<b>Local Co-ordinate Reference:</b>	Well 318H
<b>Company:</b>	Texas Standard Oil	<b>TVD Reference:</b>	RKB @ 3902.00usft
<b>Project:</b>	Lea County, NM (NAD 83 - NME)	<b>MD Reference:</b>	RKB @ 3902.00usft
<b>Site:</b>	Vindicator Caynon State Unit	<b>North Reference:</b>	Grid
<b>Well:</b>	318H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan 1 04-26-23		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
<b>Begin 2.00°/100' Drop</b>									
6,800.00	7.72	284.82	6,755.88	163.75	-618.92	-131.30	2.00	-2.00	0.00
6,900.00	5.72	284.82	6,855.19	166.74	-630.23	-133.70	2.00	-2.00	0.00
7,000.00	3.72	284.82	6,954.85	168.85	-638.19	-135.39	2.00	-2.00	0.00
7,100.00	1.72	284.82	7,054.73	170.06	-642.77	-136.36	2.00	-2.00	0.00
7,185.98	0.00	0.00	7,140.70	170.39	-644.02	-136.63	2.00	-2.00	0.00
<b>Begin Vertical Hold</b>									
11,482.82	0.00	0.00	11,437.54	170.39	-644.02	-136.63	0.00	0.00	0.00
<b>KOP2, Begin 12.00°/100' Build</b>									
11,500.00	2.06	179.40	11,454.71	170.08	-644.02	-136.32	12.00	12.00	0.00
11,600.00	14.06	179.40	11,553.55	156.08	-643.87	-122.35	12.00	12.00	0.00
11,700.00	26.06	179.40	11,647.31	121.84	-643.52	-88.17	12.00	12.00	0.00
11,800.00	38.06	179.40	11,731.90	68.86	-642.97	-35.29	12.00	12.00	0.00
11,861.08	45.39	179.40	11,777.45	28.24	-642.54	5.25	12.00	12.00	0.00
<b>FTP - VCSU 318H</b>									
11,900.00	50.06	179.40	11,803.63	-0.55	-642.24	33.99	12.00	12.00	0.00
12,000.00	62.06	179.40	11,859.35	-83.36	-641.38	116.64	12.00	12.00	0.00
12,100.00	74.06	179.40	11,896.65	-175.95	-640.42	209.05	12.00	12.00	0.00
12,200.00	86.06	179.40	11,913.87	-274.26	-639.40	307.18	12.00	12.00	0.00
12,232.82	90.00	179.40	11,915.00	-307.05	-639.06	339.91	12.00	12.00	0.00
<b>LP, Hold 90.00° Inc at 179.40° Azm</b>									
12,300.00	90.00	179.40	11,915.00	-374.23	-638.36	406.96	0.00	0.00	0.00
12,400.00	90.00	179.40	11,915.00	-474.22	-637.33	506.76	0.00	0.00	0.00
12,500.00	90.00	179.40	11,915.00	-574.22	-636.29	606.57	0.00	0.00	0.00
12,600.00	90.00	179.40	11,915.00	-674.21	-635.25	706.37	0.00	0.00	0.00
12,700.00	90.00	179.40	11,915.00	-774.21	-634.21	806.18	0.00	0.00	0.00
12,800.00	90.00	179.40	11,915.00	-874.20	-633.17	905.98	0.00	0.00	0.00
12,900.00	90.00	179.40	11,915.00	-974.20	-632.13	1,005.79	0.00	0.00	0.00
13,000.00	90.00	179.40	11,915.00	-1,074.19	-631.09	1,105.59	0.00	0.00	0.00
13,100.00	90.00	179.40	11,915.00	-1,174.19	-630.06	1,205.40	0.00	0.00	0.00
13,200.00	90.00	179.40	11,915.00	-1,274.18	-629.02	1,305.20	0.00	0.00	0.00
13,300.00	90.00	179.40	11,915.00	-1,374.17	-627.98	1,405.01	0.00	0.00	0.00
13,400.00	90.00	179.40	11,915.00	-1,474.17	-626.94	1,504.81	0.00	0.00	0.00
13,500.00	90.00	179.40	11,915.00	-1,574.16	-625.90	1,604.62	0.00	0.00	0.00
13,600.00	90.00	179.40	11,915.00	-1,674.16	-624.86	1,704.42	0.00	0.00	0.00
13,700.00	90.00	179.40	11,915.00	-1,774.15	-623.82	1,804.23	0.00	0.00	0.00
13,800.00	90.00	179.40	11,915.00	-1,874.15	-622.79	1,904.03	0.00	0.00	0.00
13,900.00	90.00	179.40	11,915.00	-1,974.14	-621.75	2,003.84	0.00	0.00	0.00
14,000.00	90.00	179.40	11,915.00	-2,074.14	-620.71	2,103.64	0.00	0.00	0.00
14,100.00	90.00	179.40	11,915.00	-2,174.13	-619.67	2,203.45	0.00	0.00	0.00
14,200.00	90.00	179.40	11,915.00	-2,274.13	-618.63	2,303.25	0.00	0.00	0.00
14,300.00	90.00	179.40	11,915.00	-2,374.12	-617.59	2,403.06	0.00	0.00	0.00
14,400.00	90.00	179.40	11,915.00	-2,474.11	-616.56	2,502.86	0.00	0.00	0.00
14,500.00	90.00	179.40	11,915.00	-2,574.11	-615.52	2,602.67	0.00	0.00	0.00
14,600.00	90.00	179.40	11,915.00	-2,674.10	-614.48	2,702.47	0.00	0.00	0.00
14,700.00	90.00	179.40	11,915.00	-2,774.10	-613.44	2,802.28	0.00	0.00	0.00
14,800.00	90.00	179.40	11,915.00	-2,874.09	-612.40	2,902.08	0.00	0.00	0.00
14,900.00	90.00	179.40	11,915.00	-2,974.09	-611.36	3,001.89	0.00	0.00	0.00
15,000.00	90.00	179.40	11,915.00	-3,074.08	-610.32	3,101.69	0.00	0.00	0.00
15,100.00	90.00	179.40	11,915.00	-3,174.08	-609.29	3,201.50	0.00	0.00	0.00
15,200.00	90.00	179.40	11,915.00	-3,274.07	-608.25	3,301.30	0.00	0.00	0.00
15,300.00	90.00	179.40	11,915.00	-3,374.07	-607.21	3,401.11	0.00	0.00	0.00
15,400.00	90.00	179.40	11,915.00	-3,474.06	-606.17	3,500.91	0.00	0.00	0.00
15,500.00	90.00	179.40	11,915.00	-3,574.06	-605.13	3,600.72	0.00	0.00	0.00





<b>Database:</b>	USAEDMDB	<b>Local Co-ordinate Reference:</b>	Well 318H
<b>Company:</b>	Texas Standard Oil	<b>TVD Reference:</b>	RKB @ 3902.00usft
<b>Project:</b>	Lea County, NM (NAD 83 - NME)	<b>MD Reference:</b>	RKB @ 3902.00usft
<b>Site:</b>	Vindicator Caynon State Unit	<b>North Reference:</b>	Grid
<b>Well:</b>	318H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan 1 04-26-23		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
15,600.00	90.00	179.40	11,915.00	-3,674.05	-604.09	3,700.52	0.00	0.00	0.00
15,700.00	90.00	179.40	11,915.00	-3,774.04	-603.05	3,800.33	0.00	0.00	0.00
15,800.00	90.00	179.40	11,915.00	-3,874.04	-602.02	3,900.13	0.00	0.00	0.00
15,900.00	90.00	179.40	11,915.00	-3,974.03	-600.98	3,999.94	0.00	0.00	0.00
16,000.00	90.00	179.40	11,915.00	-4,074.03	-599.94	4,099.74	0.00	0.00	0.00
16,100.00	90.00	179.40	11,915.00	-4,174.02	-598.90	4,199.55	0.00	0.00	0.00
16,200.00	90.00	179.40	11,915.00	-4,274.02	-597.86	4,299.35	0.00	0.00	0.00
16,300.00	90.00	179.40	11,915.00	-4,374.01	-596.82	4,399.16	0.00	0.00	0.00
16,400.00	90.00	179.40	11,915.00	-4,474.01	-595.78	4,498.96	0.00	0.00	0.00
16,500.00	90.00	179.40	11,915.00	-4,574.00	-594.75	4,598.76	0.00	0.00	0.00
16,600.00	90.00	179.40	11,915.00	-4,674.00	-593.71	4,698.57	0.00	0.00	0.00
16,700.00	90.00	179.40	11,915.00	-4,773.99	-592.67	4,798.37	0.00	0.00	0.00
16,800.00	90.00	179.40	11,915.00	-4,873.99	-591.63	4,898.18	0.00	0.00	0.00
16,900.00	90.00	179.40	11,915.00	-4,973.98	-590.59	4,997.98	0.00	0.00	0.00
17,000.00	90.00	179.40	11,915.00	-5,073.97	-589.55	5,097.79	0.00	0.00	0.00
17,100.00	90.00	179.40	11,915.00	-5,173.97	-588.52	5,197.59	0.00	0.00	0.00
17,200.00	90.00	179.40	11,915.00	-5,273.96	-587.48	5,297.40	0.00	0.00	0.00
17,300.00	90.00	179.40	11,915.00	-5,373.96	-586.44	5,397.20	0.00	0.00	0.00
17,400.00	90.00	179.40	11,915.00	-5,473.95	-585.40	5,497.01	0.00	0.00	0.00
17,500.00	90.00	179.40	11,915.00	-5,573.95	-584.36	5,596.81	0.00	0.00	0.00
17,600.00	90.00	179.40	11,915.00	-5,673.94	-583.32	5,696.62	0.00	0.00	0.00
17,700.00	90.00	179.40	11,915.00	-5,773.94	-582.28	5,796.42	0.00	0.00	0.00
17,800.00	90.00	179.40	11,915.00	-5,873.93	-581.25	5,896.23	0.00	0.00	0.00
17,900.00	90.00	179.40	11,915.00	-5,973.93	-580.21	5,996.03	0.00	0.00	0.00
18,000.00	90.00	179.40	11,915.00	-6,073.92	-579.17	6,095.84	0.00	0.00	0.00
18,100.00	90.00	179.40	11,915.00	-6,173.92	-578.13	6,195.64	0.00	0.00	0.00
18,200.00	90.00	179.40	11,915.00	-6,273.91	-577.09	6,295.45	0.00	0.00	0.00
18,300.00	90.00	179.40	11,915.00	-6,373.90	-576.05	6,395.25	0.00	0.00	0.00
18,400.00	90.00	179.40	11,915.00	-6,473.90	-575.01	6,495.06	0.00	0.00	0.00
18,500.00	90.00	179.40	11,915.00	-6,573.89	-573.98	6,594.86	0.00	0.00	0.00
18,600.00	90.00	179.40	11,915.00	-6,673.89	-572.94	6,694.67	0.00	0.00	0.00
18,700.00	90.00	179.40	11,915.00	-6,773.88	-571.90	6,794.47	0.00	0.00	0.00
18,800.00	90.00	179.40	11,915.00	-6,873.88	-570.86	6,894.28	0.00	0.00	0.00
18,900.00	90.00	179.40	11,915.00	-6,973.87	-569.82	6,994.08	0.00	0.00	0.00
19,000.00	90.00	179.40	11,915.00	-7,073.87	-568.78	7,093.89	0.00	0.00	0.00
19,100.00	90.00	179.40	11,915.00	-7,173.86	-567.74	7,193.69	0.00	0.00	0.00
19,200.00	90.00	179.40	11,915.00	-7,273.86	-566.71	7,293.50	0.00	0.00	0.00
19,300.00	90.00	179.40	11,915.00	-7,373.85	-565.67	7,393.30	0.00	0.00	0.00
19,400.00	90.00	179.40	11,915.00	-7,473.85	-564.63	7,493.11	0.00	0.00	0.00
19,500.00	90.00	179.40	11,915.00	-7,573.84	-563.59	7,592.91	0.00	0.00	0.00
19,600.00	90.00	179.40	11,915.00	-7,673.83	-562.55	7,692.72	0.00	0.00	0.00
19,700.00	90.00	179.40	11,915.00	-7,773.83	-561.51	7,792.52	0.00	0.00	0.00
19,800.00	90.00	179.40	11,915.00	-7,873.82	-560.48	7,892.33	0.00	0.00	0.00
19,900.00	90.00	179.40	11,915.00	-7,973.82	-559.44	7,992.13	0.00	0.00	0.00
20,000.00	90.00	179.40	11,915.00	-8,073.81	-558.40	8,091.94	0.00	0.00	0.00
20,100.00	90.00	179.40	11,915.00	-8,173.81	-557.36	8,191.74	0.00	0.00	0.00
20,200.00	90.00	179.40	11,915.00	-8,273.80	-556.32	8,291.55	0.00	0.00	0.00
20,300.00	90.00	179.40	11,915.00	-8,373.80	-555.28	8,391.35	0.00	0.00	0.00
20,400.00	90.00	179.40	11,915.00	-8,473.79	-554.24	8,491.16	0.00	0.00	0.00
20,500.00	90.00	179.40	11,915.00	-8,573.79	-553.21	8,590.96	0.00	0.00	0.00
20,600.00	90.00	179.40	11,915.00	-8,673.78	-552.17	8,690.77	0.00	0.00	0.00
20,700.00	90.00	179.40	11,915.00	-8,773.78	-551.13	8,790.57	0.00	0.00	0.00
20,800.00	90.00	179.40	11,915.00	-8,873.77	-550.09	8,890.38	0.00	0.00	0.00
20,900.00	90.00	179.40	11,915.00	-8,973.76	-549.05	8,990.18	0.00	0.00	0.00





<b>Database:</b>	USAEDMDB	<b>Local Co-ordinate Reference:</b>	Well 318H
<b>Company:</b>	Texas Standard Oil	<b>TVD Reference:</b>	RKB @ 3902.00usft
<b>Project:</b>	Lea County, NM (NAD 83 - NME)	<b>MD Reference:</b>	RKB @ 3902.00usft
<b>Site:</b>	Vindicator Caynon State Unit	<b>North Reference:</b>	Grid
<b>Well:</b>	318H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan 1 04-26-23		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
21,000.00	90.00	179.40	11,915.00	-9,073.76	-548.01	9,089.99	0.00	0.00	0.00
21,100.00	90.00	179.40	11,915.00	-9,173.75	-546.97	9,189.79	0.00	0.00	0.00
21,200.00	90.00	179.40	11,915.00	-9,273.75	-545.94	9,289.59	0.00	0.00	0.00
21,300.00	90.00	179.40	11,915.00	-9,373.74	-544.90	9,389.40	0.00	0.00	0.00
21,400.00	90.00	179.40	11,915.00	-9,473.74	-543.86	9,489.20	0.00	0.00	0.00
21,500.00	90.00	179.40	11,915.00	-9,573.73	-542.82	9,589.01	0.00	0.00	0.00
21,600.00	90.00	179.40	11,915.00	-9,673.73	-541.78	9,688.81	0.00	0.00	0.00
21,700.00	90.00	179.40	11,915.00	-9,773.72	-540.74	9,788.62	0.00	0.00	0.00
21,800.00	90.00	179.40	11,915.00	-9,873.72	-539.71	9,888.42	0.00	0.00	0.00
21,900.00	90.00	179.40	11,915.00	-9,973.71	-538.67	9,988.23	0.00	0.00	0.00
22,000.00	90.00	179.40	11,915.00	-10,073.71	-537.63	10,088.03	0.00	0.00	0.00
22,100.00	90.00	179.40	11,915.00	-10,173.70	-536.59	10,187.84	0.00	0.00	0.00
<b>LTP - VCSU 318H</b>									
22,198.18	90.00	179.40	11,915.00	-10,271.87	-535.57	10,285.82	0.00	0.00	0.00
<b>TD at 22198.18 - BHL - VCSU 318H</b>									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP - VCSU 318H - hit/miss target - Shape - Point	0.00	0.00	11,915.00	170.39	-644.02	666,089.06	838,458.22	32° 49' 38.525329 N	103° 21' 57.870077 W
- plan misses target center by 197.81usft at 11861.08usft MD (11777.45 TVD, 28.24 N, -642.54 E)									
LTP - VCSU 318H - Point	0.00	0.00	11,915.00	-10,221.87	-536.07	655,696.80	838,566.17	32° 47' 55.697422 N	103° 21' 57.719317 W
- plan misses target center by 48.17usft at 22100.00usft MD (11915.00 TVD, -10173.70 N, -536.59 E)									
BHL - VCSU 318H - Point	0.00	0.00	11,915.00	-10,271.87	-535.57	655,646.80	838,566.67	32° 47' 55.202689 N	103° 21' 57.718817 W
- plan hits target center									

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,000.00	2,000.00	0.00	0.00	KOP, Begin 2.00°/100' Build
2,400.01	2,398.71	7.13	-26.95	Hold 8.00° Inc at 284.82° Azm
6,785.98	6,741.99	163.26	-617.07	Begin 2.00°/100' Drop
7,185.98	7,140.70	170.39	-644.02	Begin Vertical Hold
11,482.82	11,437.54	170.39	-644.02	KOP2, Begin 12.00°/100' Build
12,232.82	11,915.00	-307.05	-639.06	LP, Hold 90.00° Inc at 179.40° Azm
22,198.18	11,915.00	-10,271.87	-535.57	TD at 22198.18



Phoenix Technology Services  
Plan Report 26-Apr-2023 08:23:10

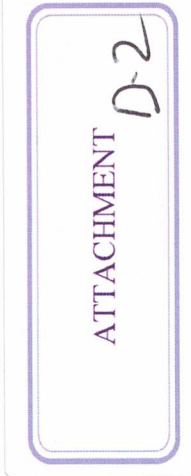
Texas Standard Oil

Vindicator Caynon State Unit 318H  
Lea County, NM (NAD 83 - NME)  
OH  
Plan 1 04-26-23

Surface Loc.:  
Northing: (Y) 665918.67  
Easting: (X) 839102.24  
RKB Elev: 3902.00'  
GL Elev: 3877.00'

Survey Type Information:  
H 0.00 - 22198.18 PLAN 1 04-26-23 : MWD+HRGM

Measured Depth (ft)	Incl.	Sub-Sea Azim.	Sub-Sea Depth (ft)	Vertical Depth (ft)	Local Coord (+N/-S) (ft)	Local Coord (+E/-W) (ft)	Map Coordinates Northings (ft)	Map Coordinates Eastings (ft)	Geogr: Latitude	Geogr: Longitude	Vertical Section (ft)	Dogleg Rate (dega/10C Annotation)
0	0	0	-3902	0	0	0	665918.7	839102.2	32.82688	-103.364	0	0
2000	0	0	-1902	2000	0	0	665918.7	839102.2	32.82688	-103.364	0	0 KOP, Begin 2.00°/100' Build
2100	2	284.819	-1802.02	2099.98	0.45	-1.69	665919.1	839100.6	32.82688	-103.364	-0.36	2
2200	4	284.819	-1702.16	2199.84	1.78	-6.75	665920.5	839095.5	32.82689	-103.364	-1.43	2
2300	6	284.819	-1602.55	2299.45	4.01	-15.17	665922.7	839087.1	32.82691	-103.364	-3.22	2
2400.006	8	284.819	-1503.29	2398.71	7.13	-26.95	665925.8	839075.3	32.82691	-103.364	-5.72	2 Hold 8.00° Inc at 284.82° Azm
2500	8	284.819	-1404.27	2497.73	10.69	-40.41	665929.4	839061.8	32.82691	-103.364	-8.57	0
2600	8	284.819	-1305.24	2596.76	14.25	-53.86	665932.9	839048.4	32.82692	-103.364	-11.43	0
2700	8	284.819	-1206.22	2695.78	17.81	-67.32	665936.5	839034.9	32.82693	-103.364	-14.28	0
2800	8	284.819	-1107.19	2794.81	21.37	-80.77	665940	839021.5	32.82694	-103.364	-17.14	0
2900	8	284.819	-1008.16	2893.84	24.93	-94.23	665943.6	839008	32.82695	-103.364	-19.99	0
3000	8	284.819	-909.14	2992.86	28.49	-107.68	665947.2	838994.6	32.82696	-103.364	-22.84	0
3100	8	284.819	-810.11	3091.89	32.05	-121.13	665950.7	838981.1	32.82697	-103.364	-25.7	0
3200	8	284.819	-711.08	3190.92	35.61	-134.59	665954.3	838967.7	32.82698	-103.364	-28.55	0
3300	8	284.819	-612.06	3289.94	39.17	-148.04	665957.8	838954.2	32.827	-103.364	-31.41	0
3400	8	284.819	-513.03	3388.97	42.73	-161.5	665961.4	838940.7	32.82701	-103.365	-34.26	0
3500	8	284.819	-414	3488	46.29	-174.95	665965	838927.3	32.82702	-103.365	-37.12	0
3600	8	284.819	-314.98	3587.02	49.85	-188.41	665968.5	838913.8	32.82703	-103.365	-39.97	0
3700	8	284.819	-215.95	3686.05	53.41	-201.86	665972.1	838900.4	32.82704	-103.365	-42.82	0
3800	8	284.819	-116.92	3785.08	56.97	-215.32	665975.6	838886.9	32.82705	-103.365	-45.68	0
3900	8	284.819	-17.9	3884.1	60.53	-228.77	665979.2	838873.5	32.82706	-103.365	-48.53	0
4000	8	284.819	81.13	3983.13	64.09	-242.23	665982.8	838860	32.82707	-103.365	-51.39	0
4100	8	284.819	180.16	4082.16	67.65	-255.68	665986.3	838846.6	32.82708	-103.365	-54.24	0
4200	8	284.819	279.18	4181.18	71.21	-269.13	665989.9	838833.1	32.82709	-103.365	-57.1	0
4300	8	284.819	378.21	4280.21	74.77	-282.59	665993.4	838819.7	32.8271	-103.365	-59.95	0
4400	8	284.819	477.24	4379.24	78.33	-296.04	665997	838806.2	32.82711	-103.365	-62.8	0
4500	8	284.819	576.26	4478.26	81.88	-309.5	666000.6	838792.7	32.82712	-103.365	-65.66	0
4600	8	284.819	675.29	4577.29	85.44	-322.95	666004.1	838779.3	32.82713	-103.365	-68.51	0
4700	8	284.819	774.32	4676.32	89	-336.41	666007.7	838765.8	32.82714	-103.365	-71.37	0
4800	8	284.819	873.34	4775.34	92.56	-349.86	666011.2	838752.4	32.82715	-103.365	-74.22	0
4900	8	284.819	972.37	4874.37	96.12	-363.32	666014.8	838738.9	32.82716	-103.365	-77.08	0
5000	8	284.819	1071.4	4973.4	99.68	-376.77	666018.4	838725.5	32.82717	-103.365	-79.93	0
5100	8	284.819	1170.42	5072.42	103.24	-390.23	666021.9	838712	32.82718	-103.365	-82.78	0
5200	8	284.819	1269.45	5171.45	106.8	-403.68	666025.5	838698.6	32.82719	-103.365	-85.64	0
5300	8	284.819	1368.48	5270.48	110.36	-417.13	666029	838685.1	32.8272	-103.365	-88.49	0
5400	8	284.819	1467.5	5369.5	113.92	-430.59	666032.6	838671.7	32.82721	-103.365	-91.35	0
5500	8	284.819	1566.53	5468.53	117.48	-444.04	666036.2	838658.2	32.82722	-103.365	-94.2	0
5600	8	284.819	1665.56	5567.56	121.04	-457.5	666039.7	838644.7	32.82723	-103.365	-97.06	0
5700	8	284.819	1764.59	5666.59	124.6	-470.95	666043.3	838631.3	32.82724	-103.366	-99.91	0
5800	8	284.819	1863.61	5765.61	128.16	-484.41	666046.8	838617.8	32.82725	-103.366	-102.76	0
5900	8	284.819	1962.64	5864.64	131.72	-497.86	666050.4	838604.4	32.82726	-103.366	-105.62	0
6000	8	284.819	2061.67	5963.67	135.28	-511.32	666054	838590.9	32.82727	-103.366	-108.47	0
6100	8	284.819	2160.69	6062.69	138.84	-524.77	666057.5	838577.5	32.82728	-103.366	-111.33	0
6200	8	284.819	2259.72	6161.72	142.4	-538.23	666061.1	838564	32.82729	-103.366	-114.18	0
6300	8	284.819	2358.75	6260.75	145.96	-551.68	666064.6	838550.6	32.8273	-103.366	-117.04	0
6400	8	284.819	2457.77	6359.77	149.52	-565.14	666068.2	838537.1	32.82731	-103.366	-119.89	0
6500	8	284.819	2556.8	6458.8	153.08	-578.59	666071.8	838523.7	32.82732	-103.366	-122.74	0
6600	8	284.819	2655.83	6557.83	156.64	-592.04	666075.3	838510.2	32.82733	-103.366	-125.6	0
6700	8	284.819	2754.85	6656.85	160.2	-605.5	666078.9	838496.7	32.82734	-103.366	-128.45	0
6785.977	8	284.819	2839.99	6741.99	163.26	-617.07	666081.9	838483.2	32.82735	-103.366	-130.91	0 Begin 2.00°/100' Drop
6800	7.72	284.819	2853.88	6755.88	163.75	-618.92	666082.4	838483.3	32.82735	-103.366	-131.3	2
6900	5.72	284.819	2953.19	6855.19	166.74	-630.23	666085.4	838472	32.82736	-103.366	-133.7	2
7000	3.72	284.819	3052.85	6954.85	168.85	-638.19	666087.5	838464.1	32.82736	-103.366	-135.39	2
7100	1.72	284.819	3152.73	7054.73	170.06	-642.77	666088.7	838459.5	32.82737	-103.366	-136.36	2
7185.982	0	0	3238.7	7140.7	170.39	-644.02	666089.1	838458.2	32.82737	-103.366	-136.63	2 Begin Vertical Hold
7200	0	0	3252.72	7154.72	170.39	-644.02	666089.1	838458.2	32.82737	-103.366	-136.63	0
7300	0	0	3352.72	7254.72	170.39	-644.02	666089.1	838458.2	32.82737	-103.366	-136.63	0
7400	0	0	3452.72	7354.72	170.39	-644.02	666089.1	838458.2	32.82737	-103.366	-136.63	0
7500	0	0	3552.72	7454.72	170.39	-644.02	666089.1	838458.2	32.82737	-103.366	-136.63	0





7600	0	0	3652.72	7554.72	170.39	-644.02	666089.1	838458.2	32.82737	-103.366	-136.63	0
7700	0	0	3752.72	7654.72	170.39	-644.02	666089.1	838458.2	32.82737	-103.366	-136.63	0
7800	0	0	3852.72	7754.72	170.39	-644.02	666089.1	838458.2	32.82737	-103.366	-136.63	0
7900	0	0	3952.72	7854.72	170.39	-644.02	666089.1	838458.2	32.82737	-103.366	-136.63	0
8000	0	0	4052.72	7954.72	170.39	-644.02	666089.1	838458.2	32.82737	-103.366	-136.63	0
8100	0	0	4152.72	8054.72	170.39	-644.02	666089.1	838458.2	32.82737	-103.366	-136.63	0
8200	0	0	4252.72	8154.72	170.39	-644.02	666089.1	838458.2	32.82737	-103.366	-136.63	0
8300	0	0	4352.72	8254.72	170.39	-644.02	666089.1	838458.2	32.82737	-103.366	-136.63	0
8400	0	0	4452.72	8354.72	170.39	-644.02	666089.1	838458.2	32.82737	-103.366	-136.63	0
8500	0	0	4552.72	8454.72	170.39	-644.02	666089.1	838458.2	32.82737	-103.366	-136.63	0
8600	0	0	4652.72	8554.72	170.39	-644.02	666089.1	838458.2	32.82737	-103.366	-136.63	0
8700	0	0	4752.72	8654.72	170.39	-644.02	666089.1	838458.2	32.82737	-103.366	-136.63	0
8800	0	0	4852.72	8754.72	170.39	-644.02	666089.1	838458.2	32.82737	-103.366	-136.63	0
8900	0	0	4952.72	8854.72	170.39	-644.02	666089.1	838458.2	32.82737	-103.366	-136.63	0
9000	0	0	5052.72	8954.72	170.39	-644.02	666089.1	838458.2	32.82737	-103.366	-136.63	0
9100	0	0	5152.72	9054.72	170.39	-644.02	666089.1	838458.2	32.82737	-103.366	-136.63	0
9200	0	0	5252.72	9154.72	170.39	-644.02	666089.1	838458.2	32.82737	-103.366	-136.63	0
9300	0	0	5352.72	9254.72	170.39	-644.02	666089.1	838458.2	32.82737	-103.366	-136.63	0
9400	0	0	5452.72	9354.72	170.39	-644.02	666089.1	838458.2	32.82737	-103.366	-136.63	0
9500	0	0	5552.72	9454.72	170.39	-644.02	666089.1	838458.2	32.82737	-103.366	-136.63	0
9600	0	0	5652.72	9554.72	170.39	-644.02	666089.1	838458.2	32.82737	-103.366	-136.63	0
9700	0	0	5752.72	9654.72	170.39	-644.02	666089.1	838458.2	32.82737	-103.366	-136.63	0
9800	0	0	5852.72	9754.72	170.39	-644.02	666089.1	838458.2	32.82737	-103.366	-136.63	0
9900	0	0	5952.72	9854.72	170.39	-644.02	666089.1	838458.2	32.82737	-103.366	-136.63	0
10000	0	0	6052.72	9954.72	170.39	-644.02	666089.1	838458.2	32.82737	-103.366	-136.63	0
10100	0	0	6152.72	10054.72	170.39	-644.02	666089.1	838458.2	32.82737	-103.366	-136.63	0
10200	0	0	6252.72	10154.72	170.39	-644.02	666089.1	838458.2	32.82737	-103.366	-136.63	0
10300	0	0	6352.72	10254.72	170.39	-644.02	666089.1	838458.2	32.82737	-103.366	-136.63	0
10400	0	0	6452.72	10354.72	170.39	-644.02	666089.1	838458.2	32.82737	-103.366	-136.63	0
10500	0	0	6552.72	10454.72	170.39	-644.02	666089.1	838458.2	32.82737	-103.366	-136.63	0
10600	0	0	6652.72	10554.72	170.39	-644.02	666089.1	838458.2	32.82737	-103.366	-136.63	0
10700	0	0	6752.72	10654.72	170.39	-644.02	666089.1	838458.2	32.82737	-103.366	-136.63	0
10800	0	0	6852.72	10754.72	170.39	-644.02	666089.1	838458.2	32.82737	-103.366	-136.63	0
10900	0	0	6952.72	10854.72	170.39	-644.02	666089.1	838458.2	32.82737	-103.366	-136.63	0
11000	0	0	7052.72	10954.72	170.39	-644.02	666089.1	838458.2	32.82737	-103.366	-136.63	0
11100	0	0	7152.72	11054.72	170.39	-644.02	666089.1	838458.2	32.82737	-103.366	-136.63	0
11200	0	0	7252.72	11154.72	170.39	-644.02	666089.1	838458.2	32.82737	-103.366	-136.63	0
11300	0	0	7352.72	11254.72	170.39	-644.02	666089.1	838458.2	32.82737	-103.366	-136.63	0
11400	0	0	7452.72	11354.72	170.39	-644.02	666089.1	838458.2	32.82737	-103.366	-136.63	0
11482.82	0	0	7535.54	11437.54	170.39	-644.02	666089.1	838458.2	32.82737	-103.366	-136.63	0 KOP2, Begin 12.00"/100' Build
11500	2.062	179.405	7552.71	11454.71	170.08	-644.02	666088.8	838458.2	32.82737	-103.366	-136.32	12
11525	5.062	179.405	7577.66	11479.66	168.53	-644	666087.2	838458.2	32.82736	-103.366	-134.77	12
11550	8.062	179.405	7602.5	11504.5	165.67	-643.97	666084.3	838458.3	32.82736	-103.366	-131.92	12
11575	11.062	179.405	7627.15	11529.15	161.52	-643.93	666080.2	838458.3	32.82734	-103.366	-127.77	12
11600	14.062	179.405	7651.54	11553.54	156.08	-643.87	666074.8	838458.4	32.82733	-103.366	-122.35	12
11625	17.062	179.405	7675.63	11577.63	149.38	-643.8	666068.1	838458.4	32.82731	-103.366	-115.65	12
11650	20.062	179.405	7699.32	11601.32	141.42	-643.72	666060.1	838458.5	32.82729	-103.366	-107.71	12
11675	23.062	179.405	7722.57	11624.57	132.23	-643.62	666050.9	838458.6	32.82726	-103.366	-98.54	12
11700	26.062	179.405	7745.31	11647.31	121.84	-643.52	666040.5	838458.7	32.82723	-103.366	-88.17	12
11725	29.062	179.405	7767.47	11669.47	110.28	-643.4	666029	838458.8	32.82722	-103.366	-76.63	12
11750	32.062	179.405	7788.99	11690.99	97.57	-643.26	666016.2	838459	32.82717	-103.366	-63.94	12
11775	35.062	179.405	7809.82	11711.82	83.75	-643.12	666002.4	838459.1	32.82713	-103.366	-50.15	12
11800	38.062	179.405	7829.9	11731.9	68.86	-642.97	665987.5	838459.3	32.82709	-103.366	-35.29	12
11825	41.062	179.405	7849.17	11751.17	52.94	-642.8	665971.6	838459.4	32.82705	-103.366	-19.4	12
11850	44.062	179.405	7867.58	11769.58	36.03	-642.62	665954.7	838459.6	32.827	-103.366	-2.52	12
11875	47.062	179.405	7885.08	11787.08	18.19	-642.44	665936.9	838459.8	32.82695	-103.366	15.29	12
11900	50.062	179.405	7901.63	11803.63	-0.55	-642.24	665918.1	838460	32.8269	-103.366	33.99	12
11925	53.062	179.405	7917.17	11819.17	-20.13	-642.04	665898.5	838460.2	32.82684	-103.366	53.13	12
11950	56.062	179.405	7931.66	11833.66	-40.5	-641.83	665878.2	838460.4	32.82679	-103.366	73.86	12
11975	59.062	179.405	7945.07	11847.07	-61.59	-641.61	665857.1	838460.6	32.82673	-103.366	94.92	12
12000	62.062	179.405	7957.35	11859.35	-83.36	-641.38	665835.3	838460.9	32.82667	-103.366	116.64	12
12025	65.062	179.405	7968.48	11870.48	-105.74	-641.15	665812.9	838461.1	32.82661	-103.366	138.98	12
12050	68.062	179.405	7978.43	11880.43	-128.68	-640.91	665790	838461.3	32.82655	-103.366	161.87	12
12075	71.062	179.405	7987.15	11889.15	-152.1	-640.67	665766.6	838461.6	32.82648	-103.366	185.25	12
12100	74.062	179.405	7994.65	11896.65	-175.95	-640.42	665742.7	838461.8	32.82642	-103.366	209.05	12
12125	77.062	179.405	8000.88	11902.88	-200.15	-640.17	665718.5	838462.1	32.82635	-103.366	233.21	12
12150	80.062	179.405	8005.84	11907.84	-224.65	-639.92	665694	838462.3	32.82628	-103.366	257.37	12
12175	83.062	179.405	8009.5	11911.5	-249.38	-639.66	665669.3	838462.6	32.82621	-103.366	282.34	12
12200	86.062	179.405	8011.87	11913.87	-274.26	-639.4	665644.4	838462.8	32.82615	-103.366	307.18	12
12225	89.062	179.405	8012.94	11914.94	-299.23	-639.14	665619.4	838463.1	32.82608	-103.366	332.11	12
12232.82	90	179.405	8013	11915	-307.05	-639.06	665611.6	838463.2	32.82606	-103.366	339.91	12 LP, Hold 90.00" Inc at 179.40" Azm
12300	90	179.405	8013	11915	-374.23	-638.36	665544.4	838463.9	32.82587	-103.366	406.96	0
12400	90	179.405	8013	11915	-474.22	-637.33	665444.5	838464.9	32.8256	-103.366	506.76	0
12500	90	179.405	8013	11915	-574.22	-636.29	665344.5	838466	32.82532	-103.366	606.57	0
12600	90	179.405	8013	11915	-674.21	-635.25	665244.5	838467	32.82505	-103.366	706.37	0
12700	90	179.405	8013	11915	-774.21	-634.21	665144.5	838468	32.82477	-103.366	806.18	0
12800	90	179.405	8013	11915	-874.2	-633.17	665044.5	838469.1	32.8245	-103.366	905.98	0
12900	90	179.405	8013	11915	-974.2	-632.13	664944.5	838470.1	32.82422	-103.366	1005.79	0
13000	90	179.405	8013	11915	-1074.19	-631.09	664844.5	838471.2	32.82395	-103.366	1105.59	0
13100	90	179.405	8013	11915	-1174.19	-630.06	664744.5	838472.2	32.82367	-103.366	1205.4	0
13200	90	179.405	8013	11915	-1274.18	-629.02	664644.5	838473.2	32.8234	-103.366	1305.2	0
13300	90	179.405	8013	11915	-1374.17	-627.98	664544.5	838474.3	32.82312	-103.366	1405.01	0
13400	90	179.405	8013	11915	-1474.17	-626.94	664444.5	838475.3	32.82285	-103.366	1504.81	0



13500	90	179.405	8013	11915	-1574.16	-625.9	664344.5	838476.3	32.82257	-103.366	1604.62	0
13600	90	179.405	8013	11915	-1674.16	-624.86	664244.5	838477.4	32.8223	-103.366	1704.42	0
13700	90	179.405	8013	11915	-1774.15	-623.82	664144.5	838478.4	32.82202	-103.366	1804.23	0
13800	90	179.405	8013	11915	-1874.15	-622.79	664044.5	838479.5	32.82175	-103.366	1904.03	0
13900	90	179.405	8013	11915	-1974.14	-621.75	663944.5	838480.5	32.82147	-103.366	2003.84	0
14000	90	179.405	8013	11915	-2074.14	-620.71	663844.5	838481.5	32.8212	-103.366	2103.64	0
14100	90	179.405	8013	11915	-2174.13	-619.67	663744.5	838482.6	32.82092	-103.366	2203.45	0
14200	90	179.405	8013	11915	-2274.13	-618.63	663644.5	838483.6	32.82065	-103.366	2303.25	0
14300	90	179.405	8013	11915	-2374.12	-617.59	663544.6	838484.7	32.82037	-103.366	2403.06	0
14400	90	179.405	8013	11915	-2474.11	-616.56	663444.6	838485.7	32.8201	-103.366	2502.86	0
14500	90	179.405	8013	11915	-2574.11	-615.52	663344.6	838486.7	32.81982	-103.366	2602.67	0
14600	90	179.405	8013	11915	-2674.1	-614.48	663244.6	838487.8	32.81955	-103.366	2702.47	0
14700	90	179.405	8013	11915	-2774.1	-613.44	663144.6	838488.8	32.81928	-103.366	2802.28	0
14800	90	179.405	8013	11915	-2874.09	-612.4	663044.6	838489.8	32.819	-103.366	2902.08	0
14900	90	179.405	8013	11915	-2974.09	-611.36	662944.6	838490.9	32.81873	-103.366	3001.89	0
15000	90	179.405	8013	11915	-3074.08	-610.32	662844.6	838491.9	32.81845	-103.366	3101.69	0
15100	90	179.405	8013	11915	-3174.08	-609.29	662744.6	838493	32.81818	-103.366	3201.5	0
15200	90	179.405	8013	11915	-3274.07	-608.25	662644.6	838494	32.8179	-103.366	3301.3	0
15300	90	179.405	8013	11915	-3374.07	-607.21	662544.6	838495	32.81763	-103.366	3401.11	0
15400	90	179.405	8013	11915	-3474.06	-606.17	662444.6	838496.1	32.81735	-103.366	3500.91	0
15500	90	179.405	8013	11915	-3574.06	-605.13	662344.6	838497.1	32.81708	-103.366	3600.72	0
15600	90	179.405	8013	11915	-3674.05	-604.09	662244.6	838498.2	32.8168	-103.366	3700.52	0
15700	90	179.405	8013	11915	-3774.04	-603.05	662144.6	838499.2	32.81653	-103.366	3800.33	0
15800	90	179.405	8013	11915	-3874.04	-602.02	662044.6	838500.2	32.81625	-103.366	3900.13	0
15900	90	179.405	8013	11915	-3974.03	-600.98	661944.6	838501.3	32.81598	-103.366	3999.94	0
16000	90	179.405	8013	11915	-4074.03	-599.94	661844.6	838502.3	32.8157	-103.366	4099.74	0
16100	90	179.405	8013	11915	-4174.02	-598.9	661744.7	838503.3	32.81543	-103.366	4199.55	0
16200	90	179.405	8013	11915	-4274.02	-597.86	661644.7	838504.4	32.81515	-103.366	4299.35	0
16300	90	179.405	8013	11915	-4374.01	-596.82	661544.7	838505.4	32.81488	-103.366	4399.15	0
16400	90	179.405	8013	11915	-4474.01	-595.78	661444.7	838506.5	32.8146	-103.366	4498.96	0
16500	90	179.405	8013	11915	-4574	-594.75	661344.7	838507.5	32.81433	-103.366	4598.76	0
16600	90	179.405	8013	11915	-4674	-593.71	661244.7	838508.5	32.81405	-103.366	4698.57	0
16700	90	179.405	8013	11915	-4773.99	-592.67	661144.7	838509.6	32.81378	-103.366	4798.37	0
16800	90	179.405	8013	11915	-4873.99	-591.63	661044.7	838510.6	32.8135	-103.366	4898.18	0
16900	90	179.405	8013	11915	-4973.98	-590.59	660944.7	838511.7	32.81323	-103.366	4997.98	0
17000	90	179.405	8013	11915	-5073.97	-589.55	660844.7	838512.7	32.81295	-103.366	5097.79	0
17100	90	179.405	8013	11915	-5173.97	-588.52	660744.7	838513.7	32.81268	-103.366	5197.59	0
17200	90	179.405	8013	11915	-5273.96	-587.48	660644.7	838514.8	32.8124	-103.366	5297.4	0
17300	90	179.405	8013	11915	-5373.96	-586.44	660544.7	838515.8	32.81213	-103.366	5397.2	0
17400	90	179.405	8013	11915	-5473.95	-585.4	660444.7	838516.8	32.81185	-103.366	5497.01	0
17500	90	179.405	8013	11915	-5573.95	-584.36	660344.7	838517.9	32.81158	-103.366	5596.81	0
17600	90	179.405	8013	11915	-5673.94	-583.32	660244.7	838518.9	32.8113	-103.366	5696.62	0
17700	90	179.405	8013	11915	-5773.94	-582.28	660144.7	838520	32.81103	-103.366	5796.42	0
17800	90	179.405	8013	11915	-5873.93	-581.25	660044.7	838521	32.81076	-103.366	5896.23	0
17900	90	179.405	8013	11915	-5973.93	-580.21	659944.7	838522	32.81048	-103.366	5996.03	0
18000	90	179.405	8013	11915	-6073.92	-579.17	659844.8	838523.1	32.81021	-103.366	6095.84	0
18100	90	179.405	8013	11915	-6173.92	-578.13	659744.8	838524.1	32.80993	-103.366	6195.64	0
18200	90	179.405	8013	11915	-6273.91	-577.09	659644.8	838525.2	32.80966	-103.366	6295.45	0
18300	90	179.405	8013	11915	-6373.9	-576.05	659544.8	838526.2	32.80938	-103.366	6395.25	0
18400	90	179.405	8013	11915	-6473.9	-575.01	659444.8	838527.2	32.80911	-103.366	6495.06	0
18500	90	179.405	8013	11915	-6573.89	-573.98	659344.8	838528.3	32.80883	-103.366	6594.86	0
18600	90	179.405	8013	11915	-6673.89	-572.94	659244.8	838529.3	32.80856	-103.366	6694.67	0
18700	90	179.405	8013	11915	-6773.88	-571.9	659144.8	838530.3	32.80828	-103.366	6794.47	0
18800	90	179.405	8013	11915	-6873.88	-570.86	659044.8	838531.4	32.80801	-103.366	6894.28	0
18900	90	179.405	8013	11915	-6973.87	-569.82	658944.8	838532.4	32.80773	-103.366	6994.08	0
19000	90	179.405	8013	11915	-7073.87	-568.78	658844.8	838533.5	32.80746	-103.366	7093.89	0
19100	90	179.405	8013	11915	-7173.86	-567.74	658744.8	838534.5	32.80718	-103.366	7193.69	0
19200	90	179.405	8013	11915	-7273.86	-566.71	658644.8	838535.5	32.80691	-103.366	7293.5	0
19300	90	179.405	8013	11915	-7373.85	-565.67	658544.8	838536.6	32.80663	-103.366	7393.3	0
19400	90	179.405	8013	11915	-7473.85	-564.63	658444.8	838537.6	32.80636	-103.366	7493.11	0
19500	90	179.405	8013	11915	-7573.84	-563.59	658344.8	838538.7	32.80608	-103.366	7592.91	0
19600	90	179.405	8013	11915	-7673.83	-562.55	658244.8	838539.7	32.80581	-103.366	7692.72	0
19700	90	179.405	8013	11915	-7773.83	-561.51	658144.8	838540.7	32.80553	-103.366	7792.52	0
19800	90	179.405	8013	11915	-7873.82	-560.48	658044.9	838541.8	32.80526	-103.366	7892.33	0
19900	90	179.405	8013	11915	-7973.82	-559.44	657944.9	838542.8	32.80498	-103.366	7992.13	0
20000	90	179.405	8013	11915	-8073.81	-558.4	657844.9	838543.8	32.80471	-103.366	8091.94	0
20100	90	179.405	8013	11915	-8173.81	-557.36	657744.9	838544.9	32.80443	-103.366	8191.74	0
20200	90	179.405	8013	11915	-8273.8	-556.32	657644.9	838545.9	32.80416	-103.366	8291.55	0
20300	90	179.405	8013	11915	-8373.8	-555.28	657544.9	838547	32.80388	-103.366	8391.35	0
20400	90	179.405	8013	11915	-8473.79	-554.24	657444.9	838548	32.80361	-103.366	8491.16	0
20500	90	179.405	8013	11915	-8573.79	-553.21	657344.9	838549	32.80333	-103.366	8590.96	0
20600	90	179.405	8013	11915	-8673.78	-552.17	657244.9	838550.1	32.80306	-103.366	8690.77	0
20700	90	179.405	8013	11915	-8773.78	-551.13	657144.9	838551.1	32.80279	-103.366	8790.57	0
20800	90	179.405	8013	11915	-8873.77	-550.09	657044.9	838552.2	32.80251	-103.366	8890.38	0
20900	90	179.405	8013	11915	-8973.76	-549.05	656944.9	838553.2	32.80224	-103.366	8990.18	0
21000	90	179.405	8013	11915	-9073.76	-548.01	656844.9	838554.2	32.80196	-103.366	9089.98	0
21100	90	179.405	8013	11915	-9173.75	-546.97	656744.9	838555.3	32.80169	-103.366	9189.79	0
21200	90	179.405	8013	11915	-9273.75	-545.94	656644.9	838556.3	32.80141	-103.366	9289.59	0
21300	90	179.405	8013	11915	-9373.74	-544.9	656544.9	838557.3	32.80114	-103.366	9389.4	0
21400	90	179.405	8013	11915	-9473.74	-543.86	656444.9	838558.4	32.80086	-103.366	9489.2	0
21500	90	179.405	8013	11915	-9573.73	-542.82	656344.9	838559.4	32.80059	-103.366	9589.01	0
21600	90	179.405	8013	11915	-9673.73	-541.78	656244.9	838560.5	32.80031	-103.366	9688.81	0
21700	90	179.405	8013	11915	-9773.72	-540.74	656145	838561.5	32.80004	-103.366	9788.62	0



21800	90	179.405	8013	11915	-9873.72	-539.71	656045	838562.5	32.79976	-103.366	9888.42	0
21900	90	179.405	8013	11915	-9973.71	-538.67	655945	838563.6	32.79949	-103.366	9988.23	0
22000	90	179.405	8013	11915	-10073.7	-537.63	655845	838564.6	32.79921	-103.366	10088.03	0
22100	90	179.405	8013	11915	-10173.7	-536.59	655745	838565.7	32.79894	-103.366	10187.84	0
22198.18	90	179.405	8013	11915	-10271.9	-535.57	655646.8	838566.7	32.79867	-103.366	10285.82	0 TD at 22198.18

All data are in feet unless otherwise stated. Directions and coordinates are relative to Grid North.  
Vertical depths are relative to RKB. Northings and Eastings are relative to Well.

The Dogleg Severity is in Degrees per 100 feet.  
Vertical Section is from Slot and calculated along an Azimuth of 182.985° (Grid).

Coordinate System is North American Datum 1983 US State Plane 1983, New Mexico Eastern Zone.  
Grid Convergence at Surface is 0.526°.

Based upon Minimum Curvature type calculations, at a Measured Depth of 22198.18ft.,  
the Bottom Hole Displacement is 10285.82ft., in the Direction of 182.985° (Grid).





# Texas Standard Oil

Lea County, NM (NAD 83 - NME)  
Vindicator Caynon State Unit  
318H

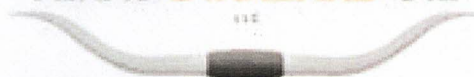
OH  
Plan 1 04-26-23

## Anticollision Report

26 April, 2023

ATTACHMENT  
D-3

TEXAS STANDARD OIL







Phoenix  
Anticollision Report



<b>Company:</b>	Texas Standard Oil	<b>Local Co-ordinate Reference:</b>	Well 318H
<b>Project:</b>	Lea County, NM (NAD 83 - NME)	<b>TVD Reference:</b>	RKB @ 3902.00usft
<b>Reference Site:</b>	Vindicator Caynon State Unit	<b>MD Reference:</b>	RKB @ 3902.00usft
<b>Site Error:</b>	0.00	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	318H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USAEDMDB
<b>Reference Design:</b>	Plan 1 04-26-23	<b>Offset TVD Reference:</b>	Offset Datum

<b>Reference</b>	Plan 1 04-26-23		
<b>Filter type:</b>	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
<b>Interpolation Method:</b>	MD Interval 100.00usft	<b>Error Model:</b>	ISCWSA
<b>Depth Range:</b>	Unlimited	<b>Scan Method:</b>	Closest Approach 3D
<b>Results Limited by:</b>	Maximum centre distance of 2,423.28usft	<b>Error Surface:</b>	Pedal Curve
<b>Warning Levels Evaluated at:</b>	2.00 Sigma	<b>Casing Method:</b>	Not applied

<b>Survey Tool Program</b>	Date 2023-04-26			
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.00	22,198.18	Plan 1 04-26-23 (OH)	MWD+HRGM	OWSG MWD + HRGM

Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centers (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
<b>Offset Well - Wellbore - Design</b>						
State 9-16						
2H - OH - Plan 1 02-15-23	2,000.00	1,995.00	887.97	876.71	78.849	CC, ES
2H - OH - Plan 1 02-15-23	11,700.00	11,876.24	1,011.60	962.51	20.607	SF
3H - OH - Plan 1 02-15-23	11,917.58	11,941.43	328.99	281.21	6.884	CC, ES, SF
4H - OH - Plan 1 02-15-23	11,918.63	11,943.12	330.98	282.93	6.889	CC, ES
4H - OH - Plan 1 02-15-23	12,000.00	11,923.18	340.14	289.76	6.752	SF
Vindicator Caynon State Unit						
317H - OH - Plan 1 04-26-23	2,000.00	2,000.00	30.00	18.68	2.651	CC, ES, SF

Offset Design 2H - OH - Plan 1 02-15-23												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Center		Distance		Minimum Separation (usft)	Separation Factor	Warning
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centers (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	0.00	1.00	1.00	129.56	-565.57	684.56	887.98				
100.00	100.00	95.00	95.00	1.32	1.12	129.56	-565.57	684.56	887.97	885.54	2.43	365.092	
200.00	200.00	195.00	195.00	1.79	1.62	129.56	-565.57	684.56	887.97	884.56	3.41	260.026	
300.00	300.00	295.00	295.00	2.17	2.03	129.56	-565.57	684.56	887.97	883.77	4.20	211.348	
400.00	400.00	395.00	395.00	2.49	2.37	129.56	-565.57	684.56	887.97	883.11	4.86	182.559	
500.00	500.00	495.00	495.00	2.78	2.67	129.56	-565.57	684.56	887.97	882.52	5.45	162.904	
600.00	600.00	595.00	595.00	3.04	2.94	129.56	-565.57	684.56	887.97	881.99	5.98	148.374	
700.00	700.00	695.00	695.00	3.28	3.19	129.56	-565.57	684.56	887.97	881.49	6.48	137.062	
800.00	800.00	795.00	795.00	3.51	3.43	129.56	-565.57	684.56	887.97	881.03	6.94	127.926	
900.00	900.00	895.00	895.00	3.73	3.65	129.56	-565.57	684.56	887.97	880.59	7.38	120.345	
1,000.00	1,000.00	995.00	995.00	3.94	3.86	129.56	-565.57	684.56	887.97	880.18	7.79	113.920	
1,100.00	1,100.00	1,095.00	1,095.00	4.13	4.06	129.56	-565.57	684.56	887.97	879.78	8.19	108.382	
1,200.00	1,200.00	1,195.00	1,195.00	4.32	4.25	129.56	-565.57	684.56	887.97	879.39	8.58	103.543	
1,300.00	1,300.00	1,295.00	1,295.00	4.51	4.44	129.56	-565.57	684.56	887.97	879.03	8.95	99.266	
1,400.00	1,400.00	1,395.00	1,395.00	4.68	4.62	129.56	-565.57	684.56	887.97	878.67	9.30	95.450	
1,500.00	1,500.00	1,495.00	1,495.00	4.86	4.79	129.56	-565.57	684.56	887.97	878.32	9.65	92.016	
1,600.00	1,600.00	1,595.00	1,595.00	5.03	4.96	129.56	-565.57	684.56	887.97	877.98	9.99	88.904	
1,700.00	1,700.00	1,695.00	1,695.00	5.19	5.13	129.56	-565.57	684.56	887.97	877.65	10.32	86.067	

CC - Min center to center distance or convergent point, SF - min separation factor, ES - min ellipse separation





Phoenix  
Anticollision Report



<b>Company:</b>	Texas Standard Oil	<b>Local Co-ordinate Reference:</b>	Well 318H
<b>Project:</b>	Lea County, NM (NAD 83 - NME)	<b>TVD Reference:</b>	RKB @ 3902.00usft
<b>Reference Site:</b>	Vindicator Caynon State Unit	<b>MD Reference:</b>	RKB @ 3902.00usft
<b>Site Error:</b>	0.00	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	318H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USAEDMDB
<b>Reference Design:</b>	Plan 1 04-26-23	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 2H - OH - Plan 1 02-15-23											Offset Site Error:	0.00 usft	
Survey Program: 0-MWD+HRGM											Offset Well Error:	1.00 usft	
Reference		Offset		Semi Major Axis		Highside Tooface (")	Offset Wellbore Center		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centers (usft)	Between Ellipses (usft)			
1,800.00	1,800.00	1,795.00	1,795.00	5.35	5.29	129.56	-565.57	684.56	887.97	877.33	10.64	83.465	
1,900.00	1,900.00	1,895.00	1,895.00	5.51	5.45	129.56	-565.57	684.56	887.97	877.02	10.95	81.068	
2,000.00	2,000.00	1,995.00	1,995.00	5.66	5.60	129.56	-565.57	684.56	887.97	876.71	11.26	78.849	CC, ES
2,100.00	2,099.98	2,094.98	2,094.98	5.89	5.75	-155.29	-565.57	684.56	889.56	877.93	11.63	76.504	
2,200.00	2,199.84	2,194.84	2,194.84	6.12	5.90	-155.39	-565.57	684.56	894.31	882.32	11.99	74.589	
2,300.00	2,299.45	2,294.45	2,294.45	6.36	6.05	-155.56	-565.57	684.56	902.25	889.88	12.36	72.976	
2,400.01	2,398.71	2,393.71	2,393.71	6.63	6.19	-155.78	-565.57	684.56	913.37	900.61	12.75	71.622	
2,500.00	2,497.73	2,492.73	2,492.73	6.84	6.33	-156.13	-565.57	684.56	926.10	913.00	13.10	70.720	
2,600.00	2,596.76	2,591.76	2,591.76	7.06	6.47	-156.48	-565.57	684.56	938.86	925.41	13.45	69.788	
2,700.00	2,695.78	2,690.78	2,690.78	7.31	6.61	-156.81	-565.57	684.56	951.66	937.83	13.83	68.831	
2,800.00	2,794.81	2,789.81	2,789.81	7.57	6.74	-157.13	-565.57	684.56	964.48	950.27	14.21	67.859	
2,900.00	2,893.84	2,888.84	2,888.84	7.85	6.87	-157.45	-565.57	684.56	977.34	962.73	14.61	66.884	
3,000.00	2,992.86	2,987.86	2,987.86	8.14	7.00	-157.76	-565.57	684.56	990.23	975.20	15.02	65.911	
3,100.00	3,091.89	3,086.89	3,086.89	8.45	7.13	-158.06	-565.57	684.56	1,003.14	987.70	15.45	64.948	
3,200.00	3,190.92	3,185.92	3,185.92	8.76	7.26	-158.35	-565.57	684.56	1,016.08	1,000.21	15.88	64.001	
3,300.00	3,289.94	3,284.94	3,284.94	9.09	7.39	-158.64	-565.57	684.56	1,029.05	1,012.73	16.32	63.072	
3,400.00	3,388.97	3,383.97	3,383.97	9.42	7.52	-158.92	-565.57	684.56	1,042.04	1,025.27	16.76	62.165	
3,500.00	3,488.00	3,483.00	3,483.00	9.76	7.64	-159.19	-565.57	684.56	1,055.05	1,037.83	17.22	61.282	
3,600.00	3,587.02	3,582.02	3,582.02	10.11	7.76	-159.45	-565.57	684.56	1,068.09	1,050.41	17.68	60.424	
3,700.00	3,686.05	3,681.05	3,681.05	10.47	7.89	-159.71	-565.57	684.56	1,081.15	1,063.00	18.14	59.593	
3,800.00	3,785.08	3,780.08	3,780.08	10.83	8.01	-159.96	-565.57	684.56	1,094.23	1,075.61	18.61	58.789	
3,900.00	3,884.10	3,879.10	3,879.10	11.19	8.13	-160.21	-565.57	684.56	1,107.33	1,088.24	19.09	58.011	
4,000.00	3,983.13	3,978.13	3,978.13	11.56	8.25	-160.45	-565.57	684.56	1,120.45	1,100.88	19.57	57.260	
4,100.00	4,082.16	4,077.16	4,077.16	11.94	8.37	-160.69	-565.57	684.56	1,133.58	1,113.53	20.05	56.535	
4,200.00	4,181.18	4,176.18	4,176.18	12.32	8.48	-160.92	-565.57	684.56	1,146.74	1,126.20	20.54	55.836	
4,300.00	4,280.21	4,275.21	4,275.21	12.70	8.60	-161.14	-565.57	684.56	1,159.92	1,138.89	21.03	55.162	
4,400.00	4,379.24	4,374.24	4,374.24	13.08	8.72	-161.36	-565.57	684.56	1,173.11	1,151.59	21.52	54.512	
4,500.00	4,478.26	4,473.26	4,473.26	13.47	8.83	-161.57	-565.57	684.56	1,186.32	1,164.30	22.02	53.886	
4,600.00	4,577.29	4,572.29	4,572.29	13.86	8.94	-161.78	-565.57	684.56	1,199.54	1,177.03	22.51	53.282	
4,700.00	4,676.32	4,671.32	4,671.32	14.26	9.06	-161.99	-565.57	684.56	1,212.78	1,189.77	23.01	52.700	
4,800.00	4,775.34	4,770.34	4,770.34	14.65	9.17	-162.19	-565.57	684.56	1,226.04	1,202.52	23.51	52.140	
4,900.00	4,874.37	4,869.37	4,869.37	15.05	9.28	-162.39	-565.57	684.56	1,239.31	1,215.29	24.02	51.599	
5,000.00	4,973.40	4,968.40	4,968.40	15.45	9.40	-162.58	-565.57	684.56	1,252.59	1,228.07	24.52	51.078	
5,100.00	5,072.42	5,117.21	5,117.18	15.85	9.62	-162.89	-563.80	682.95	1,264.56	1,239.37	25.19	50.202	
5,200.00	5,171.45	5,290.60	5,290.10	16.26	9.92	-163.36	-554.67	674.66	1,271.08	1,245.18	25.90	49.078	
5,300.00	5,270.48	5,394.31	5,393.25	16.66	10.06	-163.69	-546.66	667.37	1,274.43	1,247.98	26.45	48.178	
5,400.00	5,369.51	5,494.02	5,492.41	17.07	10.22	-163.99	-538.95	660.37	1,277.80	1,250.79	27.01	47.307	
5,500.00	5,468.53	5,593.72	5,591.57	17.47	10.38	-164.30	-531.23	653.36	1,281.22	1,253.63	27.58	46.448	
5,600.00	5,567.56	5,693.43	5,690.73	17.88	10.56	-164.61	-523.52	646.35	1,284.66	1,256.49	28.17	45.604	
5,700.00	5,666.59	5,793.13	5,789.88	18.29	10.75	-164.91	-515.81	639.34	1,288.15	1,259.38	28.77	44.775	
5,800.00	5,765.61	5,892.84	5,889.04	18.70	10.96	-165.21	-508.10	632.33	1,291.67	1,262.29	29.38	43.965	
5,900.00	5,864.64	5,992.55	5,988.20	19.12	11.17	-165.51	-500.38	625.32	1,295.23	1,265.23	30.00	43.172	
6,000.00	5,963.67	6,092.25	6,087.36	19.53	11.40	-165.81	-492.67	618.31	1,298.82	1,268.19	30.63	42.399	
6,100.00	6,062.69	6,191.96	6,186.52	19.94	11.63	-166.11	-484.96	611.30	1,302.45	1,271.17	31.28	41.645	
6,200.00	6,161.72	6,291.66	6,285.68	20.36	11.87	-166.40	-477.24	604.29	1,306.11	1,274.19	31.93	40.911	
6,300.00	6,260.75	6,391.37	6,384.84	20.77	12.12	-166.70	-469.53	597.28	1,309.81	1,277.23	32.58	40.197	

CC - Min center to center distance or convergent point, SF - min separation factor, ES - min ellipse separation





Phoenix  
Anticollision Report



<b>Company:</b>	Texas Standard Oil	<b>Local Co-ordinate Reference:</b>	Well 318H
<b>Project:</b>	Lea County, NM (NAD 83 - NME)	<b>TVD Reference:</b>	RKB @ 3902.00usft
<b>Reference Site:</b>	Vindicator Caynon State Unit	<b>MD Reference:</b>	RKB @ 3902.00usft
<b>Site Error:</b>	0.00	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	318H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USAEDMDB
<b>Reference Design:</b>	Plan 1 04-26-23	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 2H - OH - Plan 1 02-15-23												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Center		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centers (usft)	Between Ellipses (usft)			
6,400.00	6,359.77	6,491.07	6,484.00	21.19	12.38	-166.99	-461.82	590.27	1,313.54	1,280.29	33.25	39.503	
6,500.00	6,458.80	6,590.78	6,583.16	21.61	12.65	-167.28	-454.11	583.26	1,317.31	1,283.38	33.93	38.830	
6,600.00	6,557.83	6,690.48	6,682.32	22.02	12.93	-167.57	-446.39	576.25	1,321.11	1,286.50	34.61	38.176	
6,700.00	6,656.85	6,790.19	6,781.48	22.44	13.21	-167.86	-438.68	569.24	1,324.94	1,289.65	35.29	37.542	
6,800.00	6,755.88	6,889.90	6,880.64	22.85	13.50	-168.14	-430.97	562.23	1,328.78	1,292.80	35.97	36.936	
6,900.00	6,855.19	6,989.69	6,979.88	23.29	13.79	-168.42	-423.25	555.22	1,330.49	1,293.80	36.69	36.265	
7,000.00	6,954.85	7,089.52	7,079.17	23.68	14.09	-168.64	-415.53	548.20	1,328.80	1,291.44	37.36	35.568	
7,100.00	7,054.73	7,189.27	7,178.37	24.03	14.39	-168.83	-407.81	541.18	1,323.72	1,285.73	37.99	34.844	
7,200.00	7,154.72	7,288.82	7,277.38	24.17	14.70	115.84	-400.11	534.19	1,315.27	1,276.85	38.42	34.231	
7,300.00	7,254.72	7,388.28	7,376.29	24.23	15.01	115.67	-392.42	527.19	1,305.57	1,266.80	38.77	33.677	
7,400.00	7,354.72	7,487.73	7,475.19	24.27	15.33	115.49	-384.72	520.20	1,295.88	1,256.78	39.10	33.140	
7,500.00	7,454.72	7,587.18	7,574.10	24.31	15.65	115.32	-377.03	513.21	1,286.20	1,246.76	39.44	32.610	
7,600.00	7,554.72	7,686.63	7,673.01	24.35	15.98	115.14	-369.34	506.22	1,276.54	1,236.76	39.78	32.087	
7,700.00	7,654.72	7,786.08	7,771.92	24.39	16.30	114.96	-361.64	499.23	1,266.89	1,226.76	40.13	31.571	
7,800.00	7,754.72	7,885.54	7,870.82	24.43	16.64	114.77	-353.95	492.23	1,257.25	1,216.77	40.47	31.062	
7,900.00	7,854.72	7,984.99	7,969.73	24.47	16.97	114.58	-346.26	485.24	1,247.62	1,206.80	40.82	30.561	
8,000.00	7,954.72	8,084.44	8,068.64	24.51	17.31	114.39	-338.56	478.25	1,238.01	1,196.83	41.17	30.067	
8,100.00	8,054.72	8,183.89	8,167.55	24.55	17.65	114.20	-330.87	471.26	1,228.41	1,186.88	41.53	29.581	
8,200.00	8,154.72	8,283.35	8,266.45	24.59	17.99	114.01	-323.18	464.27	1,218.83	1,176.94	41.88	29.102	
8,300.00	8,254.72	8,382.80	8,365.36	24.63	18.34	113.81	-315.48	457.28	1,209.26	1,167.02	42.24	28.631	
8,400.00	8,354.72	8,482.25	8,464.27	24.67	18.68	113.60	-307.79	450.28	1,199.70	1,157.11	42.59	28.167	
8,500.00	8,454.72	8,581.70	8,563.18	24.72	19.03	113.40	-300.10	443.29	1,190.16	1,147.21	42.95	27.710	
8,600.00	8,554.72	8,681.15	8,662.08	24.76	19.39	113.19	-292.40	436.30	1,180.63	1,137.33	43.31	27.261	
8,700.00	8,654.72	8,780.61	8,760.99	24.80	19.74	112.98	-284.71	429.31	1,171.12	1,127.46	43.67	26.820	
8,800.00	8,754.72	8,880.06	8,859.90	24.84	20.10	112.76	-277.02	422.32	1,161.63	1,117.60	44.03	26.385	
8,900.00	8,854.72	8,979.51	8,958.81	24.89	20.46	112.54	-269.32	415.32	1,152.15	1,107.77	44.39	25.958	
9,000.00	8,954.72	9,078.96	9,057.71	24.93	20.81	112.32	-261.63	408.33	1,142.69	1,097.95	44.75	25.538	
9,100.00	9,054.72	9,178.41	9,156.62	24.97	21.18	112.09	-253.94	401.34	1,133.25	1,088.15	45.11	25.124	
9,200.00	9,154.72	9,277.87	9,255.53	25.01	21.54	111.86	-246.24	394.35	1,123.83	1,078.36	45.47	24.718	
9,300.00	9,254.72	9,377.32	9,354.43	25.06	21.90	111.63	-238.55	387.36	1,114.42	1,068.60	45.83	24.319	
9,400.00	9,354.72	9,476.77	9,453.34	25.10	22.27	111.39	-230.86	380.37	1,105.04	1,058.85	46.18	23.927	
9,500.00	9,454.72	9,576.22	9,552.25	25.15	22.63	111.15	-223.16	373.37	1,095.67	1,049.12	46.54	23.541	
9,600.00	9,554.72	9,675.68	9,651.16	25.19	23.00	110.90	-215.47	366.38	1,086.32	1,039.42	46.90	23.162	
9,700.00	9,654.72	9,775.13	9,750.06	25.23	23.36	110.65	-207.78	359.39	1,076.99	1,029.74	47.25	22.793	
9,800.00	9,754.72	9,874.58	9,849.51	25.28	23.74	110.40	-200.09	352.40	1,068.83	1,021.34	47.61	22.437	
9,900.00	9,854.72	9,974.03	9,949.03	25.32	24.11	110.15	-192.40	345.41	1,062.99	1,015.27	47.97	22.092	
10,000.00	9,954.72	10,073.48	10,048.61	25.37	24.49	110.00	-184.71	338.42	1,059.49	1,011.57	48.33	21.757	
10,100.00	10,054.72	10,172.93	10,148.74	25.41	24.87	110.26	-177.02	331.43	1,058.31	1,010.31	48.69	21.432	
10,133.43	10,088.15	10,108.76	10,083.15	25.43	24.28	110.26	-196.13	348.80	1,058.31	1,010.28	48.03	22.033	
10,200.00	10,154.72	10,175.33	10,149.72	25.46	24.32	110.26	-196.13	348.80	1,058.31	1,010.21	48.10	22.002	
10,300.00	10,254.72	10,275.33	10,249.72	25.50	24.37	110.26	-196.13	348.80	1,058.31	1,010.11	48.20	21.955	
10,400.00	10,354.72	10,375.33	10,349.72	25.55	24.43	110.26	-196.13	348.80	1,058.31	1,010.01	48.31	21.908	
10,500.00	10,454.72	10,475.33	10,449.72	25.60	24.48	110.26	-196.13	348.80	1,058.31	1,009.90	48.41	21.861	
10,600.00	10,554.72	10,575.33	10,549.72	25.64	24.54	110.26	-196.13	348.80	1,058.31	1,009.80	48.51	21.815	
10,700.00	10,654.72	10,675.33	10,649.72	25.69	24.59	110.26	-196.13	348.80	1,058.31	1,009.70	48.62	21.768	

CC - Min center to center distance or convergent point, SF - min separation factor, ES - min ellipse separation





**Phoenix**  
Anticollision Report



<b>Company:</b>	Texas Standard Oil	<b>Local Co-ordinate Reference:</b>	Well 318H
<b>Project:</b>	Lea County, NM (NAD 83 - NME)	<b>TVD Reference:</b>	RKB @ 3902.00usft
<b>Reference Site:</b>	Vindicator Caynon State Unit	<b>MD Reference:</b>	RKB @ 3902.00usft
<b>Site Error:</b>	0.00	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	318H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USAEDMDB
<b>Reference Design:</b>	Plan 1 04-26-23	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 2H - OH - Plan 1 02-15-23													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Center		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centers (usft)	Between Ellipses (usft)				
10,800.00	10,754.72	10,775.33	10,749.72	25.73	24.65	110.26	-196.13	348.80	1,058.31	1,009.59	48.72	21.722		
10,900.00	10,854.72	10,875.33	10,849.72	25.78	24.70	110.26	-196.13	348.80	1,058.31	1,009.49	48.83	21.675		
11,000.00	10,954.72	10,975.33	10,949.72	25.83	24.76	110.26	-196.13	348.80	1,058.31	1,009.38	48.93	21.629		
11,100.00	11,054.72	11,075.33	11,049.72	25.87	24.81	110.26	-196.13	348.80	1,058.31	1,009.28	49.04	21.582		
11,200.00	11,154.72	11,175.33	11,149.72	25.92	24.87	110.26	-196.13	348.80	1,058.31	1,009.17	49.14	21.536		
11,300.00	11,254.72	11,275.33	11,249.72	25.97	24.92	110.26	-196.13	348.80	1,058.31	1,009.07	49.25	21.490		
11,400.00	11,354.72	11,375.33	11,349.72	26.01	24.98	110.26	-196.13	348.80	1,058.31	1,008.96	49.35	21.443		
11,500.00	11,454.71	11,603.57	11,573.96	26.04	25.64	-71.16	-161.82	348.43	1,053.82	1,003.97	49.85	21.139		
11,600.00	11,553.55	11,794.08	11,739.09	25.94	26.40	-79.59	-68.59	347.41	1,034.13	984.38	49.74	20.790		
11,700.00	11,647.31	11,876.24	11,799.04	25.82	26.71	-86.47	-12.51	346.80	1,011.60	962.51	49.09	20.607	SF	
11,800.00	11,731.90	11,899.53	11,814.52	25.71	26.79	-89.74	4.89	346.61	995.50	947.32	48.18	20.664		
11,900.00	11,803.63	11,893.12	11,810.33	25.66	26.77	-90.16	0.04	346.66	988.97	941.85	47.13	20.985		
11,915.32	11,813.27	11,890.49	11,808.59	25.66	26.76	-90.02	-1.94	346.68	988.86	941.89	46.97	21.055		
12,000.00	11,859.35	11,870.57	11,795.17	25.68	26.69	-88.50	-16.65	346.84	992.24	946.21	46.03	21.556		
12,100.00	11,896.65	11,838.55	11,772.54	25.81	26.57	-85.38	-39.30	347.09	1,004.01	959.06	44.95	22.335		
12,200.00	11,913.87	11,800.00	11,743.67	26.04	26.42	-81.31	-64.84	347.37	1,022.19	978.25	43.94	23.264		
12,300.00	11,915.00	11,760.98	11,712.77	26.38	26.27	-78.72	-88.65	347.63	1,045.29	1,002.29	43.00	24.310		
12,400.00	11,915.00	11,727.36	11,684.89	26.80	26.13	-77.18	-107.44	347.83	1,075.05	1,032.92	42.13	25.516		
12,500.00	11,915.00	11,700.00	11,661.43	27.29	26.02	-75.89	-121.50	347.99	1,111.54	1,070.19	41.35	26.880		
12,600.00	11,915.00	11,674.85	11,639.30	27.84	25.92	-74.69	-133.43	348.12	1,154.44	1,113.75	40.69	28.369		
12,700.00	11,915.00	11,650.00	11,616.92	28.45	25.82	-73.49	-144.25	348.23	1,203.30	1,163.15	40.16	29.965		
12,800.00	11,915.00	11,650.00	11,616.92	29.11	25.82	-73.49	-144.25	348.23	1,257.73	1,218.04	39.69	31.690		
12,900.00	11,915.00	11,620.54	11,589.83	29.82	25.70	-72.06	-155.80	348.36	1,316.68	1,277.28	39.40	33.421		
13,000.00	11,915.00	11,600.00	11,570.60	30.58	25.62	-71.06	-163.03	348.44	1,380.18	1,341.00	39.18	35.228		
13,100.00	11,915.00	11,600.00	11,570.60	31.39	25.62	-71.06	-163.03	348.44	1,447.44	1,408.43	39.01	37.103		
13,200.00	11,915.00	11,600.00	11,570.60	32.24	25.62	-71.06	-163.03	348.44	1,518.31	1,479.39	38.92	39.013		
13,300.00	11,915.00	11,574.08	11,545.99	33.13	25.52	-69.79	-171.16	348.53	1,591.64	1,552.73	38.91	40.908		
13,400.00	11,915.00	11,550.00	11,522.82	34.05	25.43	-68.62	-177.70	348.60	1,668.06	1,629.12	38.93	42.844		
13,500.00	11,915.00	11,550.00	11,522.82	35.01	25.43	-68.62	-177.70	348.60	1,746.33	1,707.36	38.97	44.812		
13,600.00	11,915.00	11,550.00	11,522.82	36.00	25.43	-68.62	-177.70	348.60	1,826.72	1,787.69	39.04	46.796		
13,700.00	11,915.00	11,550.00	11,522.82	37.01	25.43	-68.62	-177.70	348.60	1,908.97	1,869.85	39.12	48.794		
13,800.00	11,915.00	11,550.00	11,522.82	38.06	25.43	-68.62	-177.70	348.60	1,992.84	1,953.62	39.23	50.803		
13,900.00	11,915.00	11,550.00	11,522.82	39.13	25.43	-68.62	-177.70	348.60	2,078.14	2,038.80	39.34	52.822		
14,000.00	11,915.00	11,527.13	11,500.58	40.22	25.34	-67.51	-183.01	348.66	2,164.18	2,124.70	39.48	54.822		
14,100.00	11,915.00	11,522.43	11,495.98	41.33	25.33	-67.28	-183.99	348.67	2,251.61	2,212.00	39.61	56.848		
14,200.00	11,915.00	11,500.00	11,473.94	42.46	25.25	-66.21	-188.15	348.71	2,340.34	2,300.59	39.75	58.876		

CC - Min center to center distance or convergent point, SF - min separation factor, ES - min ellipse separation





Phoenix  
Anticollision Report



<b>Company:</b>	Texas Standard Oil	<b>Local Co-ordinate Reference:</b>	Well 318H
<b>Project:</b>	Lea County, NM (NAD 83 - NME)	<b>TVD Reference:</b>	RKB @ 3902.00usft
<b>Reference Site:</b>	Vindicator Caynon State Unit	<b>MD Reference:</b>	RKB @ 3902.00usft
<b>Site Error:</b>	0.00	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	318H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USAEDMDB
<b>Reference Design:</b>	Plan 1 04-26-23	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 3H - OH - Plan 1 02-15-23											Offset Site Error:	0.00 usft	
Survey Program: 0-MWD+HRGM											Offset Well Error:	1.00 usft	
Reference				Offset		Semi Major Axis		Offset Wellbore Center		Distance		Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centers (usft)	Between Ellipses (usft)	Minimum Separation (usft)		
0.00	0.00	0.00	0.00	1.00	1.00	-149.05	-1,024.47	-614.34	1,194.56				
100.00	100.00	96.00	96.00	1.32	1.12	-149.05	-1,024.47	-614.34	1,194.55	1,192.12	2.43	490.678	
200.00	200.00	196.00	196.00	1.79	1.63	-149.05	-1,024.47	-614.34	1,194.55	1,191.13	3.42	349.157	
300.00	300.00	296.00	296.00	2.17	2.04	-149.05	-1,024.47	-614.34	1,194.55	1,190.35	4.21	284.038	
400.00	400.00	396.00	396.00	2.49	2.38	-149.05	-1,024.47	-614.34	1,194.55	1,189.68	4.87	245.417	
500.00	500.00	496.00	496.00	2.78	2.68	-149.05	-1,024.47	-614.34	1,194.55	1,189.10	5.45	219.028	
600.00	600.00	596.00	596.00	3.04	2.95	-149.05	-1,024.47	-614.34	1,194.55	1,188.56	5.99	199.512	
700.00	700.00	696.00	696.00	3.28	3.20	-149.05	-1,024.47	-614.34	1,194.55	1,188.07	6.48	184.313	
800.00	800.00	796.00	796.00	3.51	3.43	-149.05	-1,024.47	-614.34	1,194.55	1,187.61	6.94	172.036	
900.00	900.00	896.00	896.00	3.73	3.65	-149.05	-1,024.47	-614.34	1,194.55	1,187.17	7.38	161.847	
1,000.00	1,000.00	996.00	996.00	3.94	3.86	-149.05	-1,024.47	-614.34	1,194.55	1,186.75	7.80	153.211	
1,100.00	1,100.00	1,096.00	1,096.00	4.13	4.06	-149.05	-1,024.47	-614.34	1,194.55	1,186.36	8.19	145.766	
1,200.00	1,200.00	1,196.00	1,196.00	4.32	4.25	-149.05	-1,024.47	-614.34	1,194.55	1,185.97	8.58	139.261	
1,300.00	1,300.00	1,296.00	1,296.00	4.51	4.44	-149.05	-1,024.47	-614.34	1,194.55	1,185.60	8.95	133.511	
1,400.00	1,400.00	1,396.00	1,396.00	4.68	4.62	-149.05	-1,024.47	-614.34	1,194.55	1,185.25	9.30	128.380	
1,500.00	1,500.00	1,496.00	1,496.00	4.86	4.79	-149.05	-1,024.47	-614.34	1,194.55	1,184.90	9.65	123.763	
1,600.00	1,600.00	1,596.00	1,596.00	5.03	4.96	-149.05	-1,024.47	-614.34	1,194.55	1,184.56	9.99	119.579	
1,700.00	1,700.00	1,696.00	1,696.00	5.19	5.13	-149.05	-1,024.47	-614.34	1,194.55	1,184.23	10.32	115.763	
1,800.00	1,800.00	1,796.00	1,796.00	5.35	5.29	-149.05	-1,024.47	-614.34	1,194.55	1,183.91	10.64	112.265	
1,900.00	1,900.00	1,896.00	1,896.00	5.51	5.45	-149.05	-1,024.47	-614.34	1,194.55	1,183.60	10.96	109.041	
2,000.00	2,000.00	1,996.00	1,996.00	5.66	5.60	-149.05	-1,024.47	-614.34	1,194.55	1,183.29	11.26	106.058	
2,100.00	2,099.98	2,095.98	2,095.98	5.89	5.76	-73.96	-1,024.47	-614.34	1,194.07	1,182.50	11.56	103.258	
2,200.00	2,199.84	2,195.84	2,195.84	6.12	5.90	-74.23	-1,024.47	-614.34	1,192.63	1,180.78	11.85	100.618	
2,300.00	2,299.45	2,295.45	2,295.45	6.36	6.05	-74.68	-1,024.47	-614.34	1,190.29	1,178.15	12.14	98.039	
2,400.01	2,398.71	2,394.71	2,394.71	6.63	6.19	-75.30	-1,024.47	-614.34	1,187.11	1,174.68	12.43	95.506	
2,500.00	2,497.73	2,493.73	2,493.73	6.84	6.33	-75.95	-1,024.47	-614.34	1,183.62	1,170.90	12.72	93.082	
2,600.00	2,596.76	2,592.76	2,592.76	7.06	6.47	-76.60	-1,024.47	-614.34	1,180.29	1,167.28	13.00	90.763	
2,700.00	2,695.78	2,691.78	2,691.78	7.31	6.61	-77.25	-1,024.47	-614.34	1,177.11	1,163.81	13.29	88.543	
2,800.00	2,794.81	2,790.81	2,790.81	7.57	6.74	-77.90	-1,024.47	-614.34	1,174.09	1,160.50	13.59	86.421	
2,900.00	2,893.84	2,889.84	2,889.84	7.85	6.87	-78.56	-1,024.47	-614.34	1,171.22	1,157.34	13.88	84.392	
3,000.00	2,992.86	2,988.86	2,988.86	8.14	7.01	-79.23	-1,024.47	-614.34	1,168.52	1,154.34	14.17	82.452	
3,100.00	3,091.89	3,087.89	3,087.89	8.45	7.14	-79.89	-1,024.47	-614.34	1,165.97	1,151.50	14.47	80.599	
3,200.00	3,190.92	3,186.92	3,186.92	8.76	7.26	-80.56	-1,024.47	-614.34	1,163.58	1,148.82	14.76	78.828	
3,300.00	3,289.94	3,285.94	3,285.94	9.09	7.39	-81.23	-1,024.47	-614.34	1,161.36	1,146.30	15.06	77.134	
3,400.00	3,388.97	3,384.97	3,384.97	9.42	7.52	-81.90	-1,024.47	-614.34	1,159.30	1,143.95	15.35	75.514	
3,500.00	3,488.00	3,484.00	3,484.00	9.76	7.64	-82.58	-1,024.47	-614.34	1,157.40	1,141.76	15.65	73.964	
3,600.00	3,587.02	3,583.02	3,583.02	10.11	7.77	-83.26	-1,024.47	-614.34	1,155.67	1,139.73	15.94	72.481	
3,700.00	3,686.05	3,682.05	3,682.05	10.47	7.89	-83.94	-1,024.47	-614.34	1,154.10	1,137.86	16.24	71.060	
3,800.00	3,785.08	3,781.08	3,781.08	10.83	8.01	-84.62	-1,024.47	-614.34	1,152.70	1,136.17	16.54	69.699	
3,900.00	3,884.10	3,880.10	3,880.10	11.19	8.13	-85.30	-1,024.47	-614.34	1,151.47	1,134.63	16.84	68.393	
4,000.00	3,983.13	3,979.13	3,979.13	11.56	8.25	-85.99	-1,024.47	-614.34	1,150.40	1,133.27	17.13	67.140	
4,100.00	4,082.16	4,078.16	4,078.16	11.94	8.37	-86.67	-1,024.47	-614.34	1,149.50	1,132.07	17.43	65.936	
4,200.00	4,181.18	4,177.18	4,177.18	12.32	8.48	-87.36	-1,024.47	-614.34	1,148.77	1,131.04	17.73	64.779	
4,300.00	4,280.21	4,276.21	4,276.21	12.70	8.60	-88.04	-1,024.47	-614.34	1,148.21	1,130.17	18.03	63.667	
4,400.00	4,379.24	4,375.24	4,375.24	13.08	8.72	-88.73	-1,024.47	-614.34	1,147.81	1,129.47	18.34	62.595	
4,500.00	4,478.26	4,474.26	4,474.26	13.47	8.83	-89.42	-1,024.47	-614.34	1,147.58	1,128.94	18.64	61.563	

CC - Min center to center distance or convergent point, SF - min separation factor, ES - min ellipse separation





**Phoenix**  
Anticollision Report



<b>Company:</b>	Texas Standard Oil	<b>Local Co-ordinate Reference:</b>	Well 318H
<b>Project:</b>	Lea County, NM (NAD 83 - NME)	<b>TVD Reference:</b>	RKB @ 3902.00usft
<b>Reference Site:</b>	Vindicator Caynon State Unit	<b>MD Reference:</b>	RKB @ 3902.00usft
<b>Site Error:</b>	0.00	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	318H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USAEDMDB
<b>Reference Design:</b>	Plan 1 04-26-23	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 3H - OH - Plan 1 02-15-23													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Center		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centers (usft)	Between Ellipses (usft)				
4,584.26	4,561.70	4,557.70	4,557.70	13.80	8.93	-90.00	-1,024.47	-614.34	1,147.52	1,128.63	18.90	60.722		
4,600.00	4,577.29	4,573.29	4,573.29	13.86	8.95	-90.11	-1,024.47	-614.34	1,147.53	1,128.58	18.95	60.568		
4,700.00	4,676.32	4,672.32	4,672.32	14.26	9.06	-90.80	-1,024.47	-614.34	1,147.64	1,128.38	19.25	59.607		
4,800.00	4,775.34	4,771.34	4,771.34	14.65	9.17	-91.48	-1,024.47	-614.34	1,147.92	1,128.35	19.56	58.679		
4,900.00	4,874.37	4,870.37	4,870.37	15.05	9.28	-92.17	-1,024.47	-614.34	1,148.37	1,128.49	19.87	57.782		
5,000.00	4,973.40	4,969.40	4,969.40	15.45	9.40	-92.86	-1,024.47	-614.34	1,148.98	1,128.79	20.19	56.914		
5,100.00	5,072.42	5,113.28	5,113.25	15.85	9.62	-93.87	-1,022.37	-613.56	1,148.43	1,127.82	20.61	55.712		
5,200.00	5,171.45	5,276.30	5,275.87	16.26	9.90	-95.10	-1,011.99	-609.71	1,142.76	1,121.67	21.09	54.194		
5,300.00	5,270.48	5,437.29	5,435.60	16.66	10.23	-96.42	-993.24	-602.76	1,131.81	1,110.24	21.57	52.465		
5,400.00	5,369.51	5,558.96	5,555.53	17.07	10.47	-97.50	-974.06	-595.65	1,116.72	1,094.70	22.02	50.719		
5,500.00	5,468.53	5,656.25	5,651.34	17.47	10.65	-98.39	-958.22	-589.78	1,101.48	1,079.04	22.44	49.083		
5,600.00	5,567.56	5,753.54	5,747.16	17.88	10.85	-99.31	-942.37	-583.91	1,086.52	1,063.64	22.89	47.475		
5,700.00	5,666.59	5,850.83	5,842.97	18.29	11.07	-100.26	-926.53	-578.03	1,071.86	1,048.50	23.35	45.898		
5,800.00	5,765.61	5,948.12	5,938.78	18.70	11.30	-101.23	-910.68	-572.16	1,057.49	1,033.65	23.84	44.358		
5,900.00	5,864.64	6,045.41	6,034.59	19.12	11.54	-102.22	-894.84	-566.29	1,043.44	1,019.09	24.35	42.857		
6,000.00	5,963.67	6,142.70	6,130.40	19.53	11.79	-103.24	-879.00	-560.41	1,029.72	1,004.84	24.87	41.397		
6,100.00	6,062.69	6,239.99	6,226.21	19.94	12.05	-104.29	-863.15	-554.54	1,016.34	990.92	25.42	39.981		
6,200.00	6,161.72	6,337.28	6,322.02	20.36	12.33	-105.36	-847.31	-548.67	1,003.31	977.32	25.99	38.610		
6,300.00	6,260.75	6,434.57	6,417.83	20.77	12.61	-106.46	-831.47	-542.79	990.65	964.08	26.57	37.284		
6,400.00	6,359.77	6,531.86	6,513.64	21.19	12.91	-107.59	-815.62	-536.92	978.38	951.20	27.17	36.006		
6,500.00	6,458.80	6,629.15	6,609.45	21.61	13.21	-108.74	-799.78	-531.05	966.50	938.71	27.79	34.776		
6,600.00	6,557.83	6,726.44	6,705.26	22.02	13.52	-109.92	-783.94	-525.18	955.03	926.60	28.43	33.593		
6,700.00	6,656.85	6,823.73	6,801.07	22.44	13.83	-111.13	-768.09	-519.30	943.99	914.91	29.08	32.458		
6,800.00	6,755.88	6,921.02	6,896.89	22.85	14.16	-112.33	-752.25	-513.43	933.39	903.65	29.74	31.384		
6,900.00	6,855.19	7,018.62	6,993.01	23.29	14.49	-113.27	-736.36	-507.54	922.36	891.94	30.42	30.324		
7,000.00	6,954.85	7,116.63	7,089.52	23.68	14.83	-114.03	-720.40	-501.62	910.29	879.25	31.04	29.329		
7,100.00	7,054.73	7,214.91	7,186.32	24.03	15.17	-114.60	-704.39	-495.69	897.04	865.43	31.61	28.375		
7,200.00	7,154.72	7,313.36	7,283.27	24.17	15.52	-115.82	-688.36	-489.74	882.51	850.40	32.11	27.487		
7,300.00	7,254.72	7,411.84	7,380.25	24.23	15.88	-116.24	-672.32	-483.80	867.53	834.96	32.57	26.638		
7,400.00	7,354.72	7,510.32	7,477.23	24.27	16.24	-116.63	-656.28	-477.85	852.65	819.63	33.02	25.825		
7,500.00	7,454.72	7,608.80	7,574.22	24.31	16.61	-116.81	-640.25	-471.91	837.86	804.39	33.47	25.035		
7,600.00	7,554.72	7,707.28	7,671.20	24.35	16.98	-116.97	-624.21	-465.96	823.17	789.25	33.92	24.267		
7,700.00	7,654.72	7,805.76	7,768.18	24.39	17.35	-117.00	-608.17	-460.02	808.59	774.21	34.38	23.521		
7,800.00	7,754.72	7,904.24	7,865.17	24.43	17.73	-117.01	-592.13	-454.07	794.12	759.28	34.83	22.797		
7,900.00	7,854.72	8,002.72	7,962.15	24.47	18.11	-117.00	-576.10	-448.13	779.76	744.47	35.29	22.095		
8,000.00	7,954.72	8,101.20	8,059.13	24.51	18.49	-117.00	-560.06	-442.18	765.54	729.79	35.75	21.413		
8,100.00	8,054.72	8,199.68	8,156.12	24.55	18.88	-117.00	-544.02	-436.24	751.44	715.23	36.21	20.753		
8,200.00	8,154.72	8,298.16	8,253.10	24.59	19.27	-117.00	-527.98	-430.29	737.49	700.82	36.67	20.113		
8,300.00	8,254.72	8,396.64	8,350.08	24.63	19.66	-117.00	-511.95	-424.35	723.68	686.56	37.12	19.494		
8,400.00	8,354.72	8,495.12	8,447.07	24.67	20.06	-117.00	-495.91	-418.40	710.03	672.45	37.58	18.895		
8,500.00	8,454.72	8,593.60	8,544.05	24.72	20.45	-117.00	-479.87	-412.46	696.54	658.51	38.03	18.316		
8,600.00	8,554.72	8,692.08	8,641.04	24.76	20.85	-117.00	-463.83	-406.51	683.23	644.75	38.48	17.756		
8,700.00	8,654.72	8,790.56	8,738.02	24.80	21.26	-117.00	-447.80	-400.57	670.11	631.18	38.93	17.215		
8,800.00	8,754.72	8,889.04	8,835.00	24.84	21.66	-117.00	-431.76	-394.62	657.18	617.81	39.37	16.694		
8,900.00	8,854.72	8,987.52	8,931.99	24.89	22.06	-117.00	-415.72	-388.68	644.46	604.66	39.80	16.192		

CC - Min center to center distance or convergent point, SF - min separation factor, ES - min ellipse separation





Phoenix  
Anticollision Report



<b>Company:</b>	Texas Standard Oil	<b>Local Co-ordinate Reference:</b>	Well 318H
<b>Project:</b>	Lea County, NM (NAD 83 - NME)	<b>TVD Reference:</b>	RKB @ 3902.00usft
<b>Reference Site:</b>	Vindicator Caynon State Unit	<b>MD Reference:</b>	RKB @ 3902.00usft
<b>Site Error:</b>	0.00	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	318H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USAEDMDB
<b>Reference Design:</b>	Plan 1 04-26-23	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 3H - OH - Plan 1 02-15-23												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis		Highside Tooface (")	Offset Wellbore Center		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centers (usft)	Between Ellipses (usft)			
9,000.00	8,954.72	9,086.00	9,028.97	24.93	22.47	155.38	-399.68	-382.73	631.96	591.73	40.23	15.708	
9,100.00	9,054.72	9,184.48	9,125.95	24.97	22.88	154.25	-383.65	-376.79	619.70	579.05	40.65	15.243	
9,200.00	9,154.72	9,282.96	9,222.94	25.01	23.29	153.08	-367.61	-370.84	607.69	566.62	41.07	14.797	
9,300.00	9,254.72	9,381.44	9,319.92	25.06	23.70	151.86	-351.57	-364.90	595.94	554.46	41.47	14.369	
9,400.00	9,354.72	9,479.92	9,416.90	25.10	24.12	150.60	-335.54	-358.95	584.47	542.60	41.87	13.959	
9,500.00	9,454.72	9,578.40	9,513.89	25.15	24.53	149.29	-319.50	-353.01	573.30	531.04	42.26	13.567	
9,600.00	9,554.72	9,676.88	9,610.87	25.19	24.95	147.93	-303.46	-347.06	562.44	519.81	42.63	13.194	
9,700.00	9,654.72	9,775.36	9,707.86	25.23	25.36	146.51	-287.42	-341.12	551.91	508.92	42.99	12.838	
9,800.00	9,754.72	9,873.84	9,804.84	25.28	25.78	145.04	-271.39	-335.17	541.74	498.40	43.34	12.501	
9,900.00	9,854.72	9,972.33	9,901.82	25.32	26.20	143.52	-255.35	-329.23	531.94	488.27	43.67	12.181	
10,000.00	9,954.72	10,066.65	9,994.77	25.37	26.60	142.04	-240.28	-323.65	522.72	478.78	43.94	11.895	
10,100.00	10,054.72	10,157.10	10,084.28	25.41	26.98	140.81	-228.13	-319.14	515.26	471.09	44.17	11.666	
10,200.00	10,154.72	10,248.29	10,174.89	25.46	27.35	139.82	-218.57	-315.60	509.64	465.27	44.37	11.486	
10,300.00	10,254.72	10,340.04	10,266.34	25.50	27.69	139.10	-211.68	-313.04	505.73	461.19	44.55	11.353	
10,400.00	10,354.72	10,432.16	10,358.36	25.55	28.00	138.66	-207.53	-311.50	503.44	458.74	44.70	11.263	
10,500.00	10,454.72	10,524.54	10,450.72	25.60	28.23	138.51	-206.15	-310.99	502.68	457.87	44.81	11.217	
10,600.00	10,554.72	10,624.54	10,550.72	25.64	28.27	138.51	-206.15	-310.99	502.68	457.76	44.92	11.191	
10,700.00	10,654.72	10,724.54	10,650.72	25.69	28.32	138.51	-206.15	-310.99	502.68	457.65	45.04	11.162	
10,800.00	10,754.72	10,824.54	10,750.72	25.73	28.37	138.51	-206.15	-310.99	502.68	457.53	45.15	11.133	
10,900.00	10,854.72	10,924.54	10,850.72	25.78	28.42	138.51	-206.15	-310.99	502.68	457.42	45.27	11.105	
11,000.00	10,954.72	11,024.54	10,950.72	25.83	28.47	138.51	-206.15	-310.99	502.68	457.30	45.38	11.076	
11,100.00	11,054.72	11,124.54	11,050.72	25.87	28.52	138.51	-206.15	-310.99	502.68	457.19	45.50	11.048	
11,200.00	11,154.72	11,224.54	11,150.72	25.92	28.57	138.51	-206.15	-310.99	502.68	457.07	45.62	11.020	
11,300.00	11,254.72	11,324.54	11,250.72	25.97	28.62	138.51	-206.15	-310.99	502.68	456.95	45.73	10.992	
11,400.00	11,354.72	11,424.54	11,350.72	26.01	28.67	138.51	-206.15	-310.99	502.68	456.84	45.85	10.965	
11,500.00	11,454.71	11,655.32	11,577.35	26.04	29.50	-44.09	-171.01	-311.38	492.98	445.67	47.31	10.419	
11,600.00	11,553.55	11,847.02	11,743.00	25.94	30.47	-61.08	-76.31	-312.41	448.66	400.24	48.42	9.265	
11,700.00	11,647.31	11,928.75	11,802.31	25.82	30.85	-79.53	-20.17	-313.02	393.29	344.93	48.35	8.134	
11,800.00	11,731.90	11,951.45	11,817.30	25.71	30.95	-89.26	-3.13	-313.21	349.16	301.31	47.85	7.297	
11,900.00	11,803.63	11,944.54	11,812.81	25.66	30.92	-90.50	-8.38	-313.15	329.45	281.72	47.73	6.903	
11,917.58	11,814.66	11,941.43	11,810.76	25.66	30.90	-90.02	-10.73	-313.13	328.99	281.21	47.79	6.884	CC, ES, SF
12,000.00	11,859.35	11,921.61	11,797.46	25.68	30.81	-85.55	-25.40	-312.97	338.48	290.21	48.27	7.012	
12,100.00	11,896.65	11,889.28	11,774.67	25.81	30.67	-76.44	-48.34	-312.72	370.94	321.99	48.94	7.579	
12,200.00	11,913.87	11,850.00	11,745.30	26.04	30.48	-65.39	-74.41	-312.43	417.05	367.72	49.33	8.454	
12,300.00	11,915.00	11,811.27	11,714.66	26.38	30.29	-59.18	-98.10	-312.17	470.32	420.88	49.43	9.514	
12,400.00	11,915.00	11,777.48	11,686.68	26.80	30.12	-55.72	-117.02	-311.97	532.70	483.27	49.42	10.778	
12,500.00	11,915.00	11,750.00	11,663.13	27.29	29.98	-53.01	-131.18	-311.81	602.50	553.14	49.35	12.208	
12,600.00	11,915.00	11,724.74	11,640.91	27.84	29.86	-50.62	-143.19	-311.68	677.96	628.70	49.26	13.763	
12,700.00	11,915.00	11,700.00	11,618.65	28.45	29.73	-48.38	-153.98	-311.56	757.79	708.62	49.17	15.413	
12,800.00	11,915.00	11,700.00	11,618.65	29.11	29.73	-48.38	-153.98	-311.56	841.20	792.16	49.04	17.154	
12,900.00	11,915.00	11,670.22	11,591.27	29.82	29.58	-45.83	-165.69	-311.44	926.69	877.70	48.99	18.917	
13,000.00	11,915.00	11,650.00	11,572.36	30.58	29.48	-44.18	-172.82	-311.36	1,014.58	965.66	48.93	20.736	
13,100.00	11,915.00	11,650.00	11,572.36	31.39	29.48	-44.18	-172.82	-311.36	1,104.08	1,055.23	48.84	22.605	
13,200.00	11,915.00	11,650.00	11,572.36	32.24	29.48	-44.18	-172.82	-311.36	1,195.23	1,146.46	48.77	24.507	
13,300.00	11,915.00	11,623.60	11,547.30	33.13	29.35	-42.14	-181.12	-311.27	1,286.85	1,238.08	48.77	26.386	
13,400.00	11,915.00	11,600.00	11,524.59	34.05	29.23	-40.42	-187.55	-311.20	1,380.00	1,331.23	48.77	28.294	

CC - Min center to center distance or covergent point, SF - min separation factor, ES - min ellipse separation





**Phoenix**  
Anticollision Report



<b>Company:</b>	Texas Standard Oil	<b>Local Co-ordinate Reference:</b>	Well 318H
<b>Project:</b>	Lea County, NM (NAD 83 - NME)	<b>TVD Reference:</b>	RKB @ 3902.00usft
<b>Reference Site:</b>	Vindicator Caynon State Unit	<b>MD Reference:</b>	RKB @ 3902.00usft
<b>Site Error:</b>	0.00	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	318H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USAEDMDB
<b>Reference Design:</b>	Plan 1 04-26-23	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 3H - OH - Plan 1 02-15-23													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Center		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centers (usft)	Between Ellipses (usft)				
13,500.00	11,915.00	11,600.00	11,524.59	35.01	29.23	-40.42	-187.55	-311.20	1,473.45	1,424.71	48.74	30.234		
13,600.00	11,915.00	11,600.00	11,524.59	36.00	29.23	-40.42	-187.55	-311.20	1,567.71	1,519.00	48.71	32.186		
13,700.00	11,915.00	11,600.00	11,524.59	37.01	29.23	-40.42	-187.55	-311.20	1,662.64	1,613.95	48.69	34.147		
13,800.00	11,915.00	11,600.00	11,524.59	38.06	29.23	-40.42	-187.55	-311.20	1,758.13	1,709.45	48.68	36.115		
13,900.00	11,915.00	11,600.00	11,524.59	39.13	29.23	-40.42	-187.55	-311.20	1,854.09	1,805.41	48.68	38.087		
14,000.00	11,915.00	11,576.54	11,501.78	40.22	29.12	-38.81	-193.01	-311.14	1,949.85	1,901.12	48.73	40.015		
14,100.00	11,915.00	11,571.83	11,497.18	41.33	29.10	-38.49	-194.00	-311.13	2,046.31	1,997.56	48.75	41.979		
14,200.00	11,915.00	11,550.00	11,475.73	42.46	29.00	-37.09	-198.06	-311.08	2,143.38	2,094.58	48.80	43.923		
14,300.00	11,915.00	11,550.00	11,475.73	43.62	29.00	-37.09	-198.06	-311.08	2,240.23	2,191.41	48.82	45.889		
14,400.00	11,915.00	11,550.00	11,475.73	44.78	29.00	-37.09	-198.06	-311.08	2,337.35	2,288.51	48.84	47.854		

CC - Min center to center distance or convergent point, SF - min separation factor, ES - min ellipse separation





Phoenix  
Anticollision Report



<b>Company:</b>	Texas Standard Oil	<b>Local Co-ordinate Reference:</b>	Well 318H
<b>Project:</b>	Lea County, NM (NAD 83 - NME)	<b>TVD Reference:</b>	RKB @ 3902.00usft
<b>Reference Site:</b>	Vindicator Caynon State Unit	<b>MD Reference:</b>	RKB @ 3902.00usft
<b>Site Error:</b>	0.00	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	318H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USAEDMDB
<b>Reference Design:</b>	Plan 1 04-26-23	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 4H - OH - Plan 1 02-15-23													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis		Highside Tooface (")	Offset Wellbore Center		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centers (usft)	Between Ellipses (usft)				
0.00	0.00	0.00	0.00	1.00	1.00	-148.44	-1,024.67	-629.44	1,202.56					
100.00	100.00	96.00	96.00	1.32	1.12	-148.44	-1,024.67	-629.44	1,202.56	1,200.12	2.43	493.967		
200.00	200.00	196.00	196.00	1.79	1.63	-148.44	-1,024.67	-629.44	1,202.56	1,199.14	3.42	351.497		
300.00	300.00	296.00	296.00	2.17	2.04	-148.44	-1,024.67	-629.44	1,202.56	1,198.35	4.21	285.942		
400.00	400.00	396.00	396.00	2.49	2.38	-148.44	-1,024.67	-629.44	1,202.56	1,197.69	4.87	247.062		
500.00	500.00	496.00	496.00	2.78	2.68	-148.44	-1,024.67	-629.44	1,202.56	1,197.10	5.45	220.496		
600.00	600.00	596.00	596.00	3.04	2.95	-148.44	-1,024.67	-629.44	1,202.56	1,196.57	5.99	200.849		
700.00	700.00	696.00	696.00	3.28	3.20	-148.44	-1,024.67	-629.44	1,202.56	1,196.08	6.48	185.548		
800.00	800.00	796.00	796.00	3.51	3.43	-148.44	-1,024.67	-629.44	1,202.56	1,195.61	6.94	173.189		
900.00	900.00	896.00	896.00	3.73	3.65	-148.44	-1,024.67	-629.44	1,202.56	1,195.18	7.38	162.932		
1,000.00	1,000.00	996.00	996.00	3.94	3.86	-148.44	-1,024.67	-629.44	1,202.56	1,194.76	7.80	154.238		
1,100.00	1,100.00	1,096.00	1,096.00	4.13	4.06	-148.44	-1,024.67	-629.44	1,202.56	1,194.36	8.19	146.743		
1,200.00	1,200.00	1,196.00	1,196.00	4.32	4.25	-148.44	-1,024.67	-629.44	1,202.56	1,193.98	8.58	140.194		
1,300.00	1,300.00	1,296.00	1,296.00	4.51	4.44	-148.44	-1,024.67	-629.44	1,202.56	1,193.61	8.95	134.406		
1,400.00	1,400.00	1,396.00	1,396.00	4.68	4.62	-148.44	-1,024.67	-629.44	1,202.56	1,193.25	9.30	129.241		
1,500.00	1,500.00	1,496.00	1,496.00	4.86	4.79	-148.44	-1,024.67	-629.44	1,202.56	1,192.91	9.65	124.593		
1,600.00	1,600.00	1,596.00	1,596.00	5.03	4.96	-148.44	-1,024.67	-629.44	1,202.56	1,192.57	9.99	120.380		
1,700.00	1,700.00	1,696.00	1,696.00	5.19	5.13	-148.44	-1,024.67	-629.44	1,202.56	1,192.24	10.32	116.539		
1,800.00	1,800.00	1,796.00	1,796.00	5.35	5.29	-148.44	-1,024.67	-629.44	1,202.56	1,191.92	10.64	113.017		
1,900.00	1,900.00	1,896.00	1,896.00	5.51	5.45	-148.44	-1,024.67	-629.44	1,202.56	1,191.60	10.96	109.772		
2,000.00	2,000.00	1,996.00	1,996.00	5.66	5.60	-148.44	-1,024.67	-629.44	1,202.56	1,191.29	11.26	106.769		
2,100.00	2,099.98	2,095.98	2,095.98	5.89	5.76	-73.35	-1,024.67	-629.44	1,202.06	1,190.49	11.56	103.944		
2,200.00	2,199.84	2,195.84	2,195.84	6.12	5.90	-73.61	-1,024.67	-629.44	1,200.57	1,188.71	11.85	101.278		
2,300.00	2,299.45	2,295.45	2,295.45	6.36	6.05	-74.06	-1,024.67	-629.44	1,198.13	1,185.99	12.14	98.672		
2,400.01	2,398.71	2,394.71	2,394.71	6.63	6.19	-74.68	-1,024.67	-629.44	1,194.82	1,182.39	12.43	96.109		
2,500.00	2,497.73	2,493.73	2,493.73	6.84	6.33	-75.32	-1,024.67	-629.44	1,191.19	1,178.47	12.72	93.659		
2,600.00	2,596.76	2,592.76	2,592.76	7.06	6.47	-75.96	-1,024.67	-629.44	1,187.71	1,174.70	13.01	91.313		
2,700.00	2,695.78	2,691.78	2,691.78	7.31	6.61	-76.61	-1,024.67	-629.44	1,184.38	1,171.08	13.30	89.068		
2,800.00	2,794.81	2,790.81	2,790.81	7.57	6.74	-77.26	-1,024.67	-629.44	1,181.20	1,167.61	13.59	86.921		
2,900.00	2,893.84	2,889.84	2,889.84	7.85	6.87	-77.92	-1,024.67	-629.44	1,178.18	1,164.30	13.88	84.869		
3,000.00	2,992.86	2,988.86	2,988.86	8.14	7.01	-78.57	-1,024.67	-629.44	1,175.32	1,161.14	14.18	82.907		
3,100.00	3,091.89	3,087.89	3,087.89	8.45	7.14	-79.23	-1,024.67	-629.44	1,172.62	1,158.15	14.47	81.032		
3,200.00	3,190.92	3,186.92	3,186.92	8.76	7.26	-79.90	-1,024.67	-629.44	1,170.07	1,155.31	14.77	79.240		
3,300.00	3,289.94	3,285.94	3,285.94	9.09	7.39	-80.56	-1,024.67	-629.44	1,167.69	1,152.63	15.06	77.527		
3,400.00	3,388.97	3,384.97	3,384.97	9.42	7.52	-81.23	-1,024.67	-629.44	1,165.46	1,150.11	15.36	75.888		
3,500.00	3,488.00	3,484.00	3,484.00	9.76	7.64	-81.90	-1,024.67	-629.44	1,163.40	1,147.75	15.65	74.321		
3,600.00	3,587.02	3,583.02	3,583.02	10.11	7.77	-82.58	-1,024.67	-629.44	1,161.51	1,145.56	15.95	72.821		
3,700.00	3,686.05	3,682.05	3,682.05	10.47	7.89	-83.25	-1,024.67	-629.44	1,159.77	1,143.53	16.25	71.384		
3,800.00	3,785.08	3,781.08	3,781.08	10.83	8.01	-83.93	-1,024.67	-629.44	1,158.20	1,141.66	16.54	70.008		
3,900.00	3,884.10	3,880.10	3,880.10	11.19	8.13	-84.61	-1,024.67	-629.44	1,156.80	1,139.96	16.84	68.688		
4,000.00	3,983.13	3,979.13	3,979.13	11.56	8.25	-85.29	-1,024.67	-629.44	1,155.56	1,138.42	17.14	67.422		
4,100.00	4,082.16	4,078.16	4,078.16	11.94	8.37	-85.97	-1,024.67	-629.44	1,154.49	1,137.05	17.44	66.207		
4,200.00	4,181.18	4,177.18	4,177.18	12.32	8.48	-86.65	-1,024.67	-629.44	1,153.59	1,135.85	17.74	65.039		
4,300.00	4,280.21	4,276.21	4,276.21	12.70	8.60	-87.34	-1,024.67	-629.44	1,152.85	1,134.81	18.04	63.915		
4,400.00	4,379.24	4,375.24	4,375.24	13.08	8.72	-88.02	-1,024.67	-629.44	1,152.28	1,133.94	18.34	62.834		
4,500.00	4,478.26	4,474.26	4,474.26	13.47	8.83	-88.71	-1,024.67	-629.44	1,151.88	1,133.24	18.64	61.793		

CC - Min center to center distance or convergent point, SF - min separation factor, ES - min ellipse separation





# Phoenix Anticollision Report



<b>Company:</b>	Texas Standard Oil	<b>Local Co-ordinate Reference:</b>	Well 318H
<b>Project:</b>	Lea County, NM (NAD 83 - NME)	<b>TVD Reference:</b>	RKB @ 3902.00usft
<b>Reference Site:</b>	Vindicator Caynon State Unit	<b>MD Reference:</b>	RKB @ 3902.00usft
<b>Site Error:</b>	0.00	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	318H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USAEDMDB
<b>Reference Design:</b>	Plan 1 04-26-23	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 4H - OH - Plan 1 02-15-23												Offset Site Error:	0.00 usft
Survey Program: O-MWD+HRGM												Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Center		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centers (usft)	Between Ellipses (usft)			
4,600.00	4,577.29	4,573.29	4,573.29	13.86	8.95	-89.39	-1,024.67	-629.44	1,151.65	1,132.70	18.94	60.789	
4,688.78	4,665.21	4,661.21	4,661.21	14.21	9.05	-90.00	-1,024.67	-629.44	1,151.58	1,132.36	19.22	59.927	
4,700.00	4,676.32	4,672.32	4,672.32	14.26	9.06	-90.08	-1,024.67	-629.44	1,151.58	1,132.33	19.25	59.820	
4,800.00	4,775.34	4,771.34	4,771.34	14.65	9.17	-90.76	-1,024.67	-629.44	1,151.68	1,132.13	19.56	58.885	
4,900.00	4,874.37	4,870.37	4,870.37	15.05	9.28	-91.45	-1,024.67	-629.44	1,151.95	1,132.09	19.87	57.981	
5,000.00	4,973.40	4,969.40	4,969.40	15.45	9.40	-92.13	-1,024.67	-629.44	1,152.39	1,132.21	20.18	57.107	
5,100.00	5,072.42	5,102.12	5,102.10	15.85	9.60	-93.00	-1,022.99	-630.15	1,152.00	1,131.43	20.57	56.011	
5,200.00	5,171.45	5,250.49	5,250.18	16.26	9.86	-93.77	-1,014.59	-633.70	1,147.72	1,126.74	20.99	54.689	
5,300.00	5,270.48	5,398.84	5,397.56	16.66	10.14	-94.34	-999.13	-640.22	1,139.27	1,117.86	21.41	53.218	
5,400.00	5,369.51	5,531.24	5,528.23	17.07	10.41	-94.68	-979.57	-648.48	1,126.80	1,104.99	21.82	51.643	
5,500.00	5,468.53	5,630.24	5,625.73	17.47	10.60	-94.90	-963.73	-655.16	1,113.37	1,091.17	22.20	50.162	
5,600.00	5,567.56	5,729.24	5,723.22	17.88	10.80	-95.12	-947.89	-661.85	1,099.94	1,077.36	22.59	48.698	
5,700.00	5,666.59	5,828.24	5,820.72	18.29	11.01	-95.36	-932.05	-668.54	1,086.54	1,063.54	22.99	47.256	
5,800.00	5,765.61	5,927.24	5,918.21	18.70	11.24	-95.59	-916.21	-675.22	1,073.15	1,049.74	23.41	45.837	
5,900.00	5,864.64	6,026.24	6,015.71	19.12	11.49	-95.84	-900.37	-681.91	1,059.78	1,035.93	23.85	44.443	
6,000.00	5,963.67	6,125.24	6,113.20	19.53	11.74	-96.09	-884.53	-688.60	1,046.43	1,022.14	24.29	43.077	
6,100.00	6,062.69	6,224.24	6,210.70	19.94	12.01	-96.34	-868.69	-695.28	1,033.10	1,008.35	24.75	41.741	
6,200.00	6,161.72	6,323.24	6,308.19	20.36	12.28	-96.61	-852.85	-701.97	1,019.79	994.57	25.22	40.434	
6,300.00	6,260.75	6,422.24	6,405.69	20.77	12.57	-96.88	-837.01	-708.66	1,006.50	980.80	25.70	39.157	
6,400.00	6,359.77	6,521.24	6,503.19	21.19	12.87	-97.15	-821.17	-715.34	993.24	967.04	26.20	37.913	
6,500.00	6,458.80	6,620.24	6,600.68	21.61	13.17	-97.44	-805.33	-722.03	980.00	953.29	26.70	36.700	
6,600.00	6,557.83	6,719.24	6,698.18	22.02	13.49	-97.73	-789.48	-728.72	966.78	939.56	27.22	35.518	
6,700.00	6,656.85	6,818.24	6,795.67	22.44	13.81	-98.03	-773.64	-735.40	953.59	925.84	27.75	34.369	
6,800.00	6,755.88	6,917.24	6,893.17	22.85	14.14	-98.30	-757.80	-742.09	940.42	912.15	28.27	33.268	
6,900.00	6,855.19	7,016.28	6,990.71	23.29	14.47	-98.21	-741.96	-748.78	926.96	898.16	28.80	32.185	
7,000.00	6,954.85	7,115.30	7,088.22	23.68	14.82	-97.90	-726.11	-755.47	913.00	883.74	29.27	31.195	
7,100.00	7,054.73	7,214.17	7,185.58	24.03	15.16	-97.35	-710.29	-762.15	898.58	868.90	29.68	30.272	
7,200.00	7,154.72	7,312.77	7,282.69	24.17	15.52	-171.79	-694.51	-768.81	883.77	853.73	30.04	29.416	
7,300.00	7,254.72	7,411.25	7,379.67	24.23	15.87	-171.20	-678.76	-775.46	868.88	838.49	30.39	28.587	
7,400.00	7,354.72	7,509.73	7,476.65	24.27	16.23	-170.59	-663.00	-782.11	854.09	823.36	30.73	27.794	
7,500.00	7,454.72	7,608.21	7,573.64	24.31	16.60	-169.96	-647.24	-788.76	839.39	808.33	31.07	27.020	
7,600.00	7,554.72	7,706.69	7,670.62	24.35	16.97	-169.31	-631.48	-795.41	824.80	793.40	31.40	26.266	
7,700.00	7,654.72	7,805.17	7,767.60	24.39	17.34	-168.63	-615.73	-802.06	810.32	778.58	31.74	25.530	
7,800.00	7,754.72	7,903.65	7,864.59	24.43	17.72	-167.93	-599.97	-808.71	795.95	763.88	32.08	24.813	
7,900.00	7,854.72	8,002.13	7,961.57	24.47	18.10	-167.21	-584.21	-815.37	781.71	749.30	32.42	24.115	
8,000.00	7,954.72	8,100.61	8,058.56	24.51	18.48	-166.45	-568.45	-822.02	767.60	734.84	32.75	23.436	
8,100.00	8,054.72	8,199.09	8,155.54	24.55	18.87	-165.67	-552.70	-828.67	753.62	720.53	33.09	22.775	
8,200.00	8,154.72	8,297.57	8,252.52	24.59	19.26	-164.87	-536.94	-835.32	739.78	706.35	33.43	22.132	
8,300.00	8,254.72	8,396.05	8,349.51	24.63	19.65	-164.03	-521.18	-841.97	726.10	692.33	33.76	21.507	
8,400.00	8,354.72	8,494.53	8,446.49	24.67	20.05	-163.16	-505.42	-848.62	712.57	678.48	34.09	20.900	
8,500.00	8,454.72	8,593.01	8,543.47	24.72	20.44	-162.25	-489.67	-855.28	699.22	664.79	34.43	20.311	
8,600.00	8,554.72	8,691.50	8,640.46	24.76	20.84	-161.31	-473.91	-861.93	686.04	651.29	34.76	19.739	
8,700.00	8,654.72	8,789.98	8,737.44	24.80	21.24	-160.34	-458.15	-868.58	673.06	637.98	35.08	19.184	
8,800.00	8,754.72	8,888.46	8,834.42	24.84	21.65	-159.33	-442.39	-875.23	660.28	624.87	35.41	18.646	
8,900.00	8,854.72	8,986.94	8,931.41	24.89	22.05	-158.28	-426.63	-881.88	647.71	611.98	35.73	18.126	

CC - Min center to center distance or convergent point, SF - min separation factor, ES - min ellipse separation





# Phoenix Anticollision Report

<b>Company:</b>	Texas Standard Oil	<b>Local Co-ordinate Reference:</b>	Well 318H
<b>Project:</b>	Lea County, NM (NAD 83 - NME)	<b>TVD Reference:</b>	RKB @ 3902.00usft
<b>Reference Site:</b>	Vindicator Caynon State Unit	<b>MD Reference:</b>	RKB @ 3902.00usft
<b>Site Error:</b>	0.00	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	318H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USAEDMDB
<b>Reference Design:</b>	Plan 1 04-26-23	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 4H - OH - Plan 1 02-15-23												Offset Site Error:	0.00 usft
Survey Program: O-MWD+HRGM												Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Center		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centers (usft)	Between Ellipses (usft)			
9,000.00	8,954.72	9,085.42	9,028.39	24.93	22.46	-157.19	-410.88	-888.53	635.37	599.31	36.06	17.622	
9,100.00	9,054.72	9,183.90	9,125.37	24.97	22.87	-156.05	-395.12	-895.19	623.26	586.89	36.38	17.134	
9,200.00	9,154.72	9,282.38	9,222.36	25.01	23.28	-154.87	-379.36	-901.84	611.42	574.72	36.69	16.664	
9,300.00	9,254.72	9,380.86	9,319.34	25.06	23.69	-153.65	-363.60	-908.49	599.84	562.83	37.01	16.209	
9,400.00	9,354.72	9,479.34	9,416.33	25.10	24.11	-152.38	-347.85	-915.14	588.54	551.22	37.32	15.771	
9,500.00	9,454.72	9,577.82	9,513.31	25.15	24.52	-151.07	-332.09	-921.79	577.55	539.92	37.63	15.349	
9,600.00	9,554.72	9,676.30	9,610.29	25.19	24.94	-149.70	-316.33	-928.44	566.87	528.94	37.93	14.943	
9,700.00	9,654.72	9,774.78	9,707.28	25.23	25.35	-148.28	-300.57	-935.10	556.53	518.29	38.24	14.554	
9,800.00	9,754.72	9,873.26	9,804.26	25.28	25.77	-146.81	-284.82	-941.75	546.55	508.01	38.54	14.180	
9,900.00	9,854.72	9,971.74	9,901.24	25.32	26.19	-145.29	-269.06	-948.40	536.95	498.10	38.85	13.822	
10,000.00	9,954.72	10,068.82	9,996.86	25.37	26.60	-143.74	-253.56	-954.94	527.76	488.63	39.13	13.488	
10,100.00	10,054.72	10,159.25	10,086.22	25.41	26.98	-142.43	-240.81	-960.32	519.99	480.60	39.39	13.202	
10,200.00	10,154.72	10,250.48	10,176.77	25.46	27.35	-141.35	-230.58	-964.64	514.06	474.41	39.64	12.967	
10,300.00	10,254.72	10,342.34	10,268.24	25.50	27.71	-140.54	-222.97	-967.85	509.81	469.93	39.88	12.784	
10,400.00	10,354.72	10,434.63	10,360.38	25.55	28.03	-140.00	-218.06	-969.93	507.15	467.06	40.09	12.650	
10,500.00	10,454.72	10,527.17	10,452.88	25.60	28.28	-139.76	-215.87	-970.85	505.98	465.72	40.27	12.565	
10,547.13	10,501.85	10,572.13	10,497.85	25.62	28.33	-139.75	-215.75	-970.90	505.92	465.60	40.33	12.545	
10,600.00	10,554.72	10,625.00	10,550.72	25.64	28.35	-139.75	-215.75	-970.90	505.92	465.53	40.39	12.526	
10,700.00	10,654.72	10,725.00	10,650.72	25.69	28.40	-139.75	-215.75	-970.90	505.92	465.40	40.52	12.486	
10,800.00	10,754.72	10,825.00	10,750.72	25.73	28.45	-139.75	-215.75	-970.90	505.92	465.27	40.65	12.447	
10,900.00	10,854.72	10,925.00	10,850.72	25.78	28.50	-139.75	-215.75	-970.90	505.92	465.15	40.78	12.407	
11,000.00	10,954.72	11,025.00	10,950.72	25.83	28.54	-139.75	-215.75	-970.90	505.92	465.02	40.91	12.368	
11,100.00	11,054.72	11,125.00	11,050.72	25.87	28.59	-139.75	-215.75	-970.90	505.92	464.89	41.04	12.328	
11,200.00	11,154.72	11,225.00	11,150.72	25.92	28.64	-139.75	-215.75	-970.90	505.92	464.75	41.17	12.289	
11,300.00	11,254.72	11,325.00	11,250.72	25.97	28.70	-139.75	-215.75	-970.90	505.92	464.62	41.30	12.251	
11,400.00	11,354.72	11,425.00	11,350.72	26.01	28.74	-139.75	-215.75	-970.90	505.92	464.50	41.42	12.213	
11,500.00	11,454.71	11,659.87	11,581.12	26.04	29.60	44.18	-178.80	-971.30	495.83	453.16	42.67	11.621	
11,600.00	11,553.55	11,851.46	11,745.82	25.94	30.55	61.38	-82.68	-972.35	451.04	406.61	44.42	10.153	
11,700.00	11,647.31	11,932.15	11,803.93	25.82	30.92	79.74	-26.80	-972.96	395.51	350.40	45.11	8.768	
11,800.00	11,731.90	11,954.02	11,818.27	25.71	31.01	89.32	-10.30	-973.14	351.35	305.59	45.77	7.677	
11,900.00	11,803.63	11,946.53	11,813.43	25.66	30.98	90.50	-16.01	-973.08	331.48	283.92	47.56	6.970	
11,918.63	11,815.31	11,943.12	11,811.20	25.66	30.97	89.98	-18.59	-973.05	330.98	282.93	48.05	6.889	CC, ES
12,000.00	11,859.35	11,923.18	11,797.87	25.68	30.88	85.55	-33.41	-972.89	340.14	289.76	50.38	6.752	SF
12,100.00	11,896.65	11,890.54	11,774.95	25.81	30.73	76.50	-56.64	-972.64	372.09	319.14	52.95	7.027	
12,200.00	11,913.87	11,850.00	11,744.70	26.04	30.55	65.41	-83.62	-972.34	417.70	363.07	54.63	7.646	
12,300.00	11,915.00	11,812.09	11,714.75	26.38	30.36	59.33	-106.86	-972.09	470.51	414.93	55.58	8.466	
12,400.00	11,915.00	11,778.13	11,686.67	26.80	30.19	55.87	-125.94	-971.88	532.49	476.45	56.04	9.502	
12,500.00	11,915.00	11,750.00	11,662.59	27.29	30.05	53.10	-140.48	-971.72	601.96	545.79	56.17	10.716	
12,600.00	11,915.00	11,725.13	11,640.73	27.84	29.93	50.76	-152.32	-971.59	677.16	621.04	56.11	12.068	
12,700.00	11,915.00	11,700.00	11,618.13	28.45	29.80	48.49	-163.32	-971.47	756.77	700.81	55.96	13.523	
12,800.00	11,915.00	11,700.00	11,618.13	29.11	29.80	48.49	-163.32	-971.47	839.98	784.31	55.66	15.090	
12,900.00	11,915.00	11,670.35	11,590.89	29.82	29.65	45.95	-175.01	-971.34	925.33	869.84	55.49	16.676	
13,000.00	11,915.00	11,650.00	11,571.86	30.58	29.55	44.29	-182.21	-971.27	1,013.10	957.82	55.28	18.327	
13,100.00	11,915.00	11,650.00	11,571.86	31.39	29.55	44.29	-182.21	-971.27	1,102.48	1,047.47	55.01	20.043	
13,200.00	11,915.00	11,633.31	11,556.06	32.24	29.47	42.99	-187.61	-971.21	1,193.19	1,138.37	54.82	21.765	
13,300.00	11,915.00	11,623.53	11,546.74	33.13	29.42	42.25	-190.56	-971.17	1,285.08	1,230.45	54.63	23.523	

CC - Min center to center distance or convergent point, SF - min separation factor, ES - min ellipse separation





<b>Company:</b>	Texas Standard Oil	<b>Local Co-ordinate Reference:</b>	Well 318H
<b>Project:</b>	Lea County, NM (NAD 83 - NME)	<b>TVD Reference:</b>	RKB @ 3902.00usft
<b>Reference Site:</b>	Vindicator Caynon State Unit	<b>MD Reference:</b>	RKB @ 3902.00usft
<b>Site Error:</b>	0.00	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	318H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USAEDMDB
<b>Reference Design:</b>	Plan 1 04-26-23	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 4H - OH - Plan 1 02-15-23													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Center		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centers (usft)	Between Ellipses (usft)				
13,400.00	11,915.00	11,600.00	11,524.11	34.05	29.30	40.54	-196.99	-971.10	1,378.16	1,323.65	54.51	25.285		
13,500.00	11,915.00	11,600.00	11,524.11	35.01	29.30	40.54	-196.99	-971.10	1,471.55	1,417.23	54.32	27.090		
13,600.00	11,915.00	11,600.00	11,524.11	36.00	29.30	40.54	-196.99	-971.10	1,565.75	1,511.60	54.16	28.911		
13,700.00	11,915.00	11,600.00	11,524.11	37.01	29.30	40.54	-196.99	-971.10	1,660.64	1,606.63	54.01	30.745		
13,800.00	11,915.00	11,600.00	11,524.11	38.06	29.30	40.54	-196.99	-971.10	1,756.09	1,702.21	53.89	32.589		
13,900.00	11,915.00	11,600.00	11,524.11	39.13	29.30	40.54	-196.99	-971.10	1,852.02	1,798.25	53.77	34.440		
14,000.00	11,915.00	11,576.28	11,501.05	40.22	29.19	38.91	-202.54	-971.04	1,947.74	1,893.99	53.74	36.241		
14,100.00	11,915.00	11,571.56	11,496.43	41.33	29.17	38.59	-203.53	-971.03	2,044.16	1,990.49	53.67	38.088		
14,200.00	11,915.00	11,550.00	11,475.25	42.46	29.07	37.21	-207.56	-970.99	2,141.20	2,087.55	53.65	39.913		
14,300.00	11,915.00	11,550.00	11,475.25	43.62	29.07	37.21	-207.56	-970.99	2,238.02	2,184.44	53.58	41.769		
14,400.00	11,915.00	11,550.00	11,475.25	44.78	29.07	37.21	-207.56	-970.99	2,335.12	2,281.59	53.53	43.626		

CC - Min center to center distance or convergent point, SF - min separation factor, ES - min ellipse separation





Phoenix  
Anticollision Report

<b>Company:</b>	Texas Standard Oil	<b>Local Co-ordinate Reference:</b>	Well 318H
<b>Project:</b>	Lea County, NM (NAD 83 - NME)	<b>TVD Reference:</b>	RKB @ 3902.00usft
<b>Reference Site:</b>	Vindicator Caynon State Unit	<b>MD Reference:</b>	RKB @ 3902.00usft
<b>Site Error:</b>	0.00	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	318H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USAEDMDB
<b>Reference Design:</b>	Plan 1 04-26-23	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 317H - OH - Plan 1 04-26-23											Offset Site Error:	0.00 usft	
Survey Program: 0-MWD+HRGM											Offset Well Error:	1.00 usft	
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Center		Distance		Minimum Separation (usft)	Separation Factor	Warning
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centers (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	0.00	1.00	1.00	89.14	0.45	30.00	30.00				
100.00	100.00	100.00	100.00	1.32	1.32	89.14	0.45	30.00	30.00	27.37	2.63	11.389	
200.00	200.00	200.00	200.00	1.79	1.79	89.14	0.45	30.00	30.00	26.42	3.58	8.374	
300.00	300.00	300.00	300.00	2.17	2.17	89.14	0.45	30.00	30.00	25.67	4.33	6.921	
400.00	400.00	400.00	400.00	2.49	2.49	89.14	0.45	30.00	30.00	25.02	4.98	6.025	
500.00	500.00	500.00	500.00	2.78	2.78	89.14	0.45	30.00	30.00	24.45	5.55	5.401	
600.00	600.00	600.00	600.00	3.04	3.04	89.14	0.45	30.00	30.00	23.92	6.08	4.935	
700.00	700.00	700.00	700.00	3.28	3.28	89.14	0.45	30.00	30.00	23.44	6.57	4.569	
800.00	800.00	800.00	800.00	3.51	3.51	89.14	0.45	30.00	30.00	22.98	7.02	4.271	
900.00	900.00	900.00	900.00	3.73	3.73	89.14	0.45	30.00	30.00	22.55	7.46	4.023	
1,000.00	1,000.00	1,000.00	1,000.00	3.94	3.94	89.14	0.45	30.00	30.00	22.13	7.87	3.812	
1,100.00	1,100.00	1,100.00	1,100.00	4.13	4.13	89.14	0.45	30.00	30.00	21.74	8.27	3.630	
1,200.00	1,200.00	1,200.00	1,200.00	4.32	4.32	89.14	0.45	30.00	30.00	21.36	8.65	3.470	
1,300.00	1,300.00	1,300.00	1,300.00	4.51	4.51	89.14	0.45	30.00	30.00	20.99	9.01	3.329	
1,400.00	1,400.00	1,400.00	1,400.00	4.68	4.68	89.14	0.45	30.00	30.00	20.63	9.37	3.202	
1,500.00	1,500.00	1,500.00	1,500.00	4.86	4.86	89.14	0.45	30.00	30.00	20.29	9.71	3.089	
1,600.00	1,600.00	1,600.00	1,600.00	5.03	5.03	89.14	0.45	30.00	30.00	19.95	10.05	2.985	
1,700.00	1,700.00	1,700.00	1,700.00	5.19	5.19	89.14	0.45	30.00	30.00	19.63	10.38	2.891	
1,800.00	1,800.00	1,800.00	1,800.00	5.35	5.35	89.14	0.45	30.00	30.00	19.30	10.70	2.804	
1,900.00	1,900.00	1,900.00	1,900.00	5.51	5.51	89.14	0.45	30.00	30.00	18.99	11.01	2.725	
2,000.00	2,000.00	2,000.00	2,000.00	5.66	5.66	89.14	0.45	30.00	30.00	18.68	11.32	2.651	CC, ES, SF
2,100.00	2,099.98	2,099.98	2,099.98	5.89	5.81	165.17	0.45	30.00	31.69	19.99	11.69	2.710	
2,200.00	2,199.84	2,199.84	2,199.84	6.12	5.96	167.23	0.45	30.00	36.77	24.70	12.07	3.047	
2,300.00	2,299.45	2,297.97	2,297.95	6.36	6.17	168.87	0.92	31.61	46.90	34.39	12.51	3.749	
2,400.01	2,398.71	2,394.81	2,394.66	6.63	6.39	169.34	2.32	36.35	63.62	50.66	12.96	4.910	
2,500.00	2,497.73	2,490.16	2,489.66	6.84	6.61	169.06	4.59	44.09	85.10	71.75	13.35	6.375	
2,600.00	2,596.76	2,584.11	2,582.96	7.06	6.85	168.32	7.69	54.67	109.60	95.85	13.76	7.968	
2,700.00	2,695.78	2,679.94	2,677.86	7.31	7.05	167.54	11.44	67.43	136.08	121.90	14.18	9.597	
2,800.00	2,794.81	2,776.35	2,773.33	7.57	7.26	167.01	15.22	80.30	162.61	147.98	14.63	11.113	
2,900.00	2,893.84	2,872.75	2,868.80	7.85	7.49	166.62	19.00	93.17	189.16	174.04	15.12	12.513	
3,000.00	2,992.86	2,969.16	2,964.27	8.14	7.73	166.33	22.78	106.05	215.71	200.08	15.63	13.802	
3,100.00	3,091.89	3,065.57	3,059.74	8.45	7.98	166.10	26.56	118.92	242.26	226.09	16.17	14.986	
3,200.00	3,190.92	3,161.97	3,155.20	8.76	8.25	165.92	30.34	131.79	268.82	252.09	16.73	16.072	
3,300.00	3,289.94	3,258.38	3,250.67	9.09	8.54	165.77	34.12	144.67	295.38	278.07	17.31	17.068	
3,400.00	3,388.97	3,354.78	3,346.14	9.42	8.83	165.65	37.90	157.54	321.94	304.03	17.91	17.980	
3,500.00	3,488.00	3,451.19	3,441.61	9.76	9.13	165.54	41.68	170.41	348.50	329.98	18.52	18.815	
3,600.00	3,587.02	3,547.60	3,537.07	10.11	9.44	165.45	45.47	183.29	375.06	355.91	19.15	19.582	
3,700.00	3,686.05	3,644.00	3,632.54	10.47	9.76	165.37	49.25	196.16	401.62	381.83	19.80	20.285	
3,800.00	3,785.08	3,740.41	3,728.01	10.83	10.09	165.30	53.03	209.03	428.19	407.73	20.46	20.931	
3,900.00	3,884.10	3,836.81	3,823.48	11.19	10.42	165.24	56.81	221.91	454.75	433.63	21.13	21.526	
4,000.00	3,983.13	3,933.22	3,918.95	11.56	10.76	165.19	60.59	234.78	481.32	459.51	21.81	22.073	
4,100.00	4,082.16	4,029.63	4,014.41	11.94	11.10	165.14	64.37	247.65	507.88	485.39	22.49	22.578	
4,200.00	4,181.18	4,126.03	4,109.88	12.32	11.45	165.10	68.15	260.53	534.45	511.26	23.19	23.045	
4,300.00	4,280.21	4,222.44	4,205.35	12.70	11.81	165.06	71.93	273.40	561.02	537.12	23.90	23.476	
4,400.00	4,379.24	4,318.84	4,300.82	13.08	12.17	165.02	75.71	286.28	587.58	562.97	24.61	23.876	
4,500.00	4,478.26	4,415.25	4,396.28	13.47	12.53	164.99	79.49	299.15	614.15	588.82	25.33	24.247	

CC - Min center to center distance or convergent point, SF - min separation factor, ES - min ellipse separation





**Phoenix**  
Anticollision Report



<b>Company:</b>	Texas Standard Oil	<b>Local Co-ordinate Reference:</b>	Well 318H
<b>Project:</b>	Lea County, NM (NAD 83 - NME)	<b>TVD Reference:</b>	RKB @ 3902.00usft
<b>Reference Site:</b>	Vindicator Caynon State Unit	<b>MD Reference:</b>	RKB @ 3902.00usft
<b>Site Error:</b>	0.00	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	318H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USAEDMDB
<b>Reference Design:</b>	Plan 1 04-26-23	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 317H - OH - Plan 1 04-26-23												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Center		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centers (usft)	Between Ellipses (usft)			
4,600.00	4,577.29	4,511.65	4,491.75	13.86	12.89	164.96	83.27	312.02	640.72	614.66	26.05	24.592	
4,700.00	4,676.32	4,608.06	4,587.22	14.26	13.26	164.93	87.05	324.90	667.28	640.50	26.78	24.913	
4,800.00	4,775.34	4,704.47	4,682.69	14.65	13.63	164.90	90.83	337.77	693.85	666.33	27.52	25.213	
4,900.00	4,874.37	4,800.87	4,778.16	15.05	14.01	164.88	94.61	350.64	720.42	692.16	28.26	25.492	
5,000.00	4,973.40	4,897.28	4,873.62	15.45	14.38	164.86	98.39	363.52	746.98	717.98	29.01	25.753	
5,100.00	5,072.42	4,993.68	4,969.09	15.85	14.76	164.84	102.17	376.39	773.55	743.80	29.75	25.998	
5,200.00	5,171.45	5,090.09	5,064.56	16.26	15.14	164.82	105.95	389.26	800.12	769.61	30.51	26.228	
5,300.00	5,270.48	5,186.50	5,160.03	16.66	15.52	164.80	109.73	402.14	826.68	795.42	31.26	26.443	
5,400.00	5,369.51	5,282.90	5,255.49	17.07	15.91	164.78	113.51	415.01	853.25	821.23	32.02	26.646	
5,500.00	5,468.53	5,379.31	5,350.96	17.47	16.29	164.77	117.30	427.88	879.82	847.04	32.78	26.837	
5,600.00	5,567.56	5,475.71	5,446.43	17.88	16.68	164.75	121.08	440.76	906.39	872.84	33.55	27.017	
5,700.00	5,666.59	5,572.12	5,541.90	18.29	17.07	164.74	124.86	453.63	932.95	898.64	34.32	27.187	
5,800.00	5,765.61	5,668.53	5,637.37	18.70	17.46	164.73	128.64	466.51	959.52	924.44	35.09	27.347	
5,900.00	5,864.64	5,764.93	5,732.83	19.12	17.85	164.71	132.42	479.38	986.09	950.23	35.86	27.499	
6,000.00	5,963.67	5,861.34	5,828.30	19.53	18.24	164.70	136.20	492.25	1,012.66	976.02	36.63	27.643	
6,100.00	6,062.69	5,957.74	5,923.77	19.94	18.64	164.69	139.98	505.13	1,039.23	1,001.82	37.41	27.779	
6,200.00	6,161.72	6,054.15	6,019.24	20.36	19.03	164.68	143.76	518.00	1,065.79	1,027.60	38.19	27.908	
6,300.00	6,260.75	6,150.56	6,114.70	20.77	19.43	164.67	147.54	530.87	1,092.36	1,053.39	38.97	28.031	
6,400.00	6,359.77	6,246.96	6,210.17	21.19	19.83	164.66	151.32	543.75	1,118.93	1,079.18	39.75	28.148	
6,500.00	6,458.80	6,343.37	6,305.64	21.61	20.22	164.65	155.10	556.62	1,145.50	1,104.96	40.54	28.259	
6,600.00	6,557.83	6,439.77	6,401.11	22.02	20.62	164.64	158.88	569.49	1,172.07	1,130.74	41.32	28.365	
6,700.00	6,656.85	6,536.18	6,496.58	22.44	21.02	164.63	162.66	582.37	1,198.63	1,156.53	42.11	28.466	
6,800.00	6,755.88	6,632.60	6,592.05	22.85	21.42	164.65	166.44	595.24	1,225.17	1,182.28	42.89	28.568	
6,900.00	6,855.19	6,729.54	6,688.06	23.29	21.83	164.74	170.24	608.19	1,249.65	1,205.96	43.69	28.600	
7,000.00	6,954.85	6,827.25	6,784.81	23.68	22.23	164.78	174.08	621.24	1,270.86	1,226.39	44.46	28.582	
7,100.00	7,054.73	6,925.60	6,882.20	24.03	22.64	164.76	177.93	634.37	1,288.77	1,243.57	45.20	28.515	
7,200.00	7,154.72	7,024.46	6,980.10	24.17	23.05	89.49	181.81	647.57	1,303.39	1,257.66	45.73	28.501	
7,300.00	7,254.72	7,192.80	7,147.33	24.23	23.73	89.26	187.21	665.97	1,314.49	1,267.84	46.65	28.176	
7,400.00	7,354.72	7,372.08	7,326.32	24.27	24.36	89.15	189.92	675.18	1,319.65	1,272.25	47.41	27.836	
7,500.00	7,454.72	7,500.49	7,454.72	24.31	24.51	89.14	190.12	675.87	1,320.04	1,272.44	47.60	27.731	
7,600.00	7,554.72	7,600.49	7,554.72	24.35	24.55	89.14	190.12	675.87	1,320.04	1,272.35	47.68	27.684	
7,700.00	7,654.72	7,700.49	7,654.72	24.39	24.59	89.14	190.12	675.87	1,320.04	1,272.27	47.76	27.636	
7,800.00	7,754.72	7,800.49	7,754.72	24.43	24.63	89.14	190.12	675.87	1,320.04	1,272.19	47.85	27.588	
7,900.00	7,854.72	7,900.49	7,854.72	24.47	24.67	89.14	190.12	675.87	1,320.04	1,272.11	47.93	27.541	
8,000.00	7,954.72	8,000.49	7,954.72	24.51	24.71	89.14	190.12	675.87	1,320.04	1,272.02	48.01	27.493	
8,100.00	8,054.72	8,100.49	8,054.72	24.55	24.75	89.14	190.12	675.87	1,320.04	1,271.94	48.10	27.445	
8,200.00	8,154.72	8,200.49	8,154.72	24.59	24.79	89.14	190.12	675.87	1,320.04	1,271.86	48.18	27.397	
8,300.00	8,254.72	8,300.49	8,254.72	24.63	24.83	89.14	190.12	675.87	1,320.04	1,271.77	48.27	27.349	
8,400.00	8,354.72	8,400.49	8,354.72	24.67	24.88	89.14	190.12	675.87	1,320.04	1,271.69	48.35	27.301	
8,500.00	8,454.72	8,500.49	8,454.72	24.72	24.92	89.14	190.12	675.87	1,320.04	1,271.60	48.44	27.253	
8,600.00	8,554.72	8,600.49	8,554.72	24.76	24.96	89.14	190.12	675.87	1,320.04	1,271.51	48.52	27.204	
8,700.00	8,654.72	8,700.49	8,654.72	24.80	25.00	89.14	190.12	675.87	1,320.04	1,271.43	48.61	27.156	
8,800.00	8,754.72	8,800.49	8,754.72	24.84	25.04	89.14	190.12	675.87	1,320.04	1,271.34	48.70	27.108	
8,900.00	8,854.72	8,900.49	8,854.72	24.89	25.09	89.14	190.12	675.87	1,320.04	1,271.25	48.78	27.060	
9,000.00	8,954.72	9,000.49	8,954.72	24.93	25.13	89.14	190.12	675.87	1,320.04	1,271.17	48.87	27.011	

CC - Min center to center distance or convergent point, SF - min separation factor, ES - min ellipse separation





Phoenix  
Anticollision Report

<b>Company:</b>	Texas Standard Oil	<b>Local Co-ordinate Reference:</b>	Well 318H
<b>Project:</b>	Lea County, NM (NAD 83 - NME)	<b>TVD Reference:</b>	RKB @ 3902.00usft
<b>Reference Site:</b>	Vindicator Caynon State Unit	<b>MD Reference:</b>	RKB @ 3902.00usft
<b>Site Error:</b>	0.00	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	318H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USAEDMDB
<b>Reference Design:</b>	Plan 1 04-26-23	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 317H - OH - Plan 1 04-26-23											Offset Site Error:	0.00 usft	
Survey Program: 0-MWD+HRGM											Offset Well Error:	1.00 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Center		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centers (usft)	Between Ellipses (usft)			
9,100.00	9,054.72	9,100.49	9,054.72	24.97	25.17	89.14	190.12	675.87	1,320.04	1,271.08	48.96	26.963	
9,200.00	9,154.72	9,200.49	9,154.72	25.01	25.22	89.14	190.12	675.87	1,320.04	1,270.99	49.05	26.914	
9,300.00	9,254.72	9,300.49	9,254.72	25.06	25.26	89.14	190.12	675.87	1,320.04	1,270.90	49.13	26.866	
9,400.00	9,354.72	9,400.49	9,354.72	25.10	25.30	89.14	190.12	675.87	1,320.04	1,270.81	49.22	26.817	
9,500.00	9,454.72	9,500.49	9,454.72	25.15	25.35	89.14	190.12	675.87	1,320.04	1,270.72	49.31	26.769	
9,600.00	9,554.72	9,600.49	9,554.72	25.19	25.39	89.14	190.12	675.87	1,320.04	1,270.63	49.40	26.720	
9,700.00	9,654.72	9,700.49	9,654.72	25.23	25.44	89.14	190.12	675.87	1,320.04	1,270.54	49.49	26.671	
9,800.00	9,754.72	9,800.49	9,754.72	25.28	25.48	89.14	190.12	675.87	1,320.04	1,270.45	49.58	26.623	
9,900.00	9,854.72	9,900.49	9,854.72	25.32	25.52	89.14	190.12	675.87	1,320.04	1,270.36	49.67	26.574	
10,000.00	9,954.72	10,000.49	9,954.72	25.37	25.57	89.14	190.12	675.87	1,320.04	1,270.27	49.77	26.525	
10,100.00	10,054.72	10,100.49	10,054.72	25.41	25.61	89.14	190.12	675.87	1,320.04	1,270.18	49.86	26.477	
10,200.00	10,154.72	10,200.49	10,154.72	25.46	25.66	89.14	190.12	675.87	1,320.04	1,270.09	49.95	26.428	
10,300.00	10,254.72	10,300.49	10,254.72	25.50	25.70	89.14	190.12	675.87	1,320.04	1,270.00	50.04	26.379	
10,400.00	10,354.72	10,400.49	10,354.72	25.55	25.75	89.14	190.12	675.87	1,320.04	1,269.90	50.13	26.330	
10,500.00	10,454.72	10,500.49	10,454.72	25.60	25.79	89.14	190.12	675.87	1,320.04	1,269.81	50.23	26.282	
10,600.00	10,554.72	10,600.49	10,554.72	25.64	25.84	89.14	190.12	675.87	1,320.04	1,269.72	50.32	26.233	
10,700.00	10,654.72	10,700.49	10,654.72	25.69	25.89	89.14	190.12	675.87	1,320.04	1,269.62	50.41	26.184	
10,800.00	10,754.72	10,800.49	10,754.72	25.73	25.93	89.14	190.12	675.87	1,320.04	1,269.53	50.51	26.135	
10,900.00	10,854.72	10,900.49	10,854.72	25.78	25.98	89.14	190.12	675.87	1,320.04	1,269.44	50.60	26.087	
11,000.00	10,954.72	11,000.49	10,954.72	25.83	26.03	89.14	190.12	675.87	1,320.04	1,269.34	50.70	26.038	
11,100.00	11,054.72	11,100.49	11,054.72	25.87	26.07	89.14	190.12	675.87	1,320.04	1,269.25	50.79	25.989	
11,200.00	11,154.72	11,200.49	11,154.72	25.92	26.12	89.14	190.12	675.87	1,320.04	1,269.15	50.89	25.940	
11,300.00	11,254.72	11,300.49	11,254.72	25.97	26.17	89.14	190.12	675.87	1,320.04	1,269.05	50.98	25.892	
11,400.00	11,354.72	11,400.49	11,354.72	26.01	26.21	89.14	190.12	675.87	1,320.04	1,268.96	51.08	25.843	
11,404.40	11,359.12	11,404.89	11,359.12	26.02	26.22	-90.26	190.12	675.87	1,320.04	1,268.95	51.08	25.841	
11,500.00	11,454.71	11,500.48	11,454.71	26.04	26.26	-90.27	190.12	675.87	1,320.04	1,268.88	51.16	25.801	
11,600.00	11,553.55	11,602.10	11,555.82	25.94	26.18	-90.53	181.89	675.96	1,320.08	1,268.97	51.12	25.826	
11,700.00	11,647.31	11,705.22	11,654.33	25.82	26.06	-90.78	152.07	676.27	1,320.15	1,269.13	51.02	25.877	
11,800.00	11,731.90	11,809.58	11,745.16	25.71	25.94	-90.99	101.12	676.79	1,320.22	1,269.31	50.91	25.933	
11,802.34	11,733.74	11,812.04	11,747.15	25.71	25.94	-90.99	99.68	676.81	1,320.22	1,269.31	50.91	25.934	
11,900.00	11,803.63	11,914.98	11,823.48	25.66	25.88	-91.16	30.90	677.52	1,320.29	1,269.44	50.85	25.965	
11,900.01	11,803.63	11,914.99	11,823.49	25.66	25.88	-91.16	30.90	677.52	1,320.29	1,269.44	50.85	25.965	
12,000.00	11,859.35	12,021.18	11,884.92	25.68	25.89	-91.27	-55.46	678.42	1,320.35	1,269.45	50.89	25.944	
12,000.87	11,859.76	12,022.11	11,885.36	25.68	25.89	-91.27	-56.26	678.43	1,320.35	1,269.45	50.89	25.943	
12,100.00	11,896.65	12,127.88	11,925.92	25.81	26.01	-91.32	-153.71	679.44	1,320.38	1,269.28	51.09	25.843	
12,118.60	11,901.40	12,147.74	11,931.08	25.85	26.05	-91.33	-172.89	679.64	1,320.38	1,269.22	51.16	25.811	
12,200.00	11,913.87	12,234.70	11,944.14	26.04	26.26	-91.32	-258.74	680.53	1,320.37	1,268.90	51.47	25.651	
12,261.29	11,916.79	12,297.75	11,945.00	26.25	26.47	-91.22	-321.76	681.19	1,320.32	1,268.52	51.80	25.487	
12,300.00	11,915.00	12,336.51	11,945.00	26.38	26.62	-91.30	-360.52	681.59	1,320.36	1,268.33	52.04	25.374	
12,321.14	11,915.00	12,357.65	11,945.00	26.47	26.70	-91.30	-381.66	681.81	1,320.36	1,268.18	52.18	25.303	
12,400.00	11,915.00	12,436.51	11,945.00	26.80	27.04	-91.30	-460.52	682.63	1,320.36	1,267.61	52.76	25.028	
12,421.14	11,915.00	12,457.65	11,945.00	26.90	27.14	-91.30	-481.65	682.85	1,320.36	1,267.43	52.93	24.944	
12,500.00	11,915.00	12,536.51	11,945.00	27.29	27.53	-91.30	-560.51	683.66	1,320.36	1,266.74	53.62	24.623	
12,521.14	11,915.00	12,557.65	11,945.00	27.40	27.64	-91.30	-581.65	683.88	1,320.36	1,266.53	53.83	24.528	
12,600.00	11,915.00	12,636.51	11,945.00	27.84	28.07	-91.30	-660.51	684.70	1,320.36	1,265.73	54.63	24.169	
12,621.14	11,915.00	12,657.65	11,945.00	27.97	28.20	-91.30	-681.64	684.92	1,320.36	1,265.50	54.87	24.065	

CC - Min center to center distance or convergent point, SF - min separation factor, ES - min ellipse separation





**Phoenix**  
Anticollision Report



<b>Company:</b>	Texas Standard Oil	<b>Local Co-ordinate Reference:</b>	Well 318H
<b>Project:</b>	Lea County, NM (NAD 83 - NME)	<b>TVD Reference:</b>	RKB @ 3902.00usft
<b>Reference Site:</b>	Vindicator Caynon State Unit	<b>MD Reference:</b>	RKB @ 3902.00usft
<b>Site Error:</b>	0.00	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	318H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USAEDMDB
<b>Reference Design:</b>	Plan 1 04-26-23	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 317H - OH - Plan 1 04-26-23											Offset Site Error:	0.00 usft	
Survey Program: 0-MWD+HRGM											Offset Well Error:	1.00 usft	
Reference				Semi Major Axis		Highside Toolface (°)	Offset Wellbore Center		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centers (usft)	Between Ellipses (usft)			
12,700.00	11,915.00	12,736.51	11,945.00	28.45	28.68	-91.30	-760.50	685.74	1,320.36	1,264.59	55.77	23.675	
12,721.14	11,915.00	12,757.65	11,945.00	28.59	28.82	-91.30	-781.63	685.96	1,320.36	1,264.33	56.03	23.564	
12,800.00	11,915.00	12,836.51	11,945.00	29.11	29.34	-91.30	-860.50	686.78	1,320.36	1,263.33	57.04	23.149	
12,821.14	11,915.00	12,857.65	11,945.00	29.26	29.49	-91.30	-881.63	687.00	1,320.36	1,263.04	57.32	23.033	
12,900.00	11,915.00	12,936.51	11,945.00	29.82	30.05	-91.30	-960.49	687.82	1,320.36	1,261.94	58.42	22.602	
12,921.14	11,915.00	12,957.65	11,945.00	29.98	30.21	-91.30	-981.62	688.04	1,320.36	1,261.63	58.73	22.482	
13,000.00	11,915.00	13,036.51	11,945.00	30.58	30.81	-91.30	-1,060.48	688.86	1,320.36	1,260.45	59.91	22.039	
13,021.14	11,915.00	13,057.65	11,945.00	30.76	30.97	-91.30	-1,081.62	689.08	1,320.36	1,260.12	60.24	21.917	
13,100.00	11,915.00	13,136.51	11,945.00	31.39	31.61	-91.30	-1,160.48	689.89	1,320.36	1,258.86	61.50	21.469	
13,121.14	11,915.00	13,157.65	11,945.00	31.57	31.79	-91.30	-1,181.61	690.11	1,320.36	1,258.51	61.85	21.346	
13,200.00	11,915.00	13,236.51	11,945.00	32.24	32.45	-91.30	-1,260.47	690.93	1,320.36	1,257.17	63.19	20.896	
13,221.14	11,915.00	13,257.65	11,945.00	32.43	32.64	-91.30	-1,281.61	691.15	1,320.36	1,256.80	63.56	20.774	
13,300.00	11,915.00	13,336.51	11,945.00	33.13	33.34	-91.30	-1,360.47	691.97	1,320.36	1,255.40	64.96	20.326	
13,321.14	11,915.00	13,357.65	11,945.00	33.32	33.53	-91.30	-1,381.60	692.19	1,320.36	1,255.01	65.35	20.205	
13,400.00	11,915.00	13,436.51	11,945.00	34.05	34.25	-91.30	-1,460.46	693.01	1,320.36	1,253.55	66.81	19.763	
13,421.14	11,915.00	13,457.65	11,945.00	34.25	34.45	-91.30	-1,481.60	693.23	1,320.36	1,253.15	67.21	19.644	
13,500.00	11,915.00	13,536.51	11,945.00	35.01	35.21	-91.30	-1,560.46	694.05	1,320.36	1,251.63	68.73	19.210	
13,521.14	11,915.00	13,557.65	11,945.00	35.22	35.41	-91.30	-1,581.59	694.27	1,320.36	1,251.21	69.15	19.094	
13,600.00	11,915.00	13,636.51	11,945.00	36.00	36.19	-91.30	-1,660.45	695.09	1,320.36	1,249.64	70.72	18.670	
13,621.14	11,915.00	13,657.65	11,945.00	36.21	36.40	-91.30	-1,681.59	695.30	1,320.36	1,249.21	71.15	18.556	
13,700.00	11,915.00	13,736.51	11,945.00	37.01	37.20	-91.30	-1,760.45	696.12	1,320.36	1,247.59	72.77	18.143	
13,721.14	11,915.00	13,757.65	11,945.00	37.23	37.42	-91.30	-1,781.58	696.34	1,320.36	1,247.14	73.22	18.033	
13,800.00	11,915.00	13,836.51	11,945.00	38.06	38.24	-91.30	-1,860.44	697.16	1,320.36	1,245.48	74.88	17.633	
13,821.14	11,915.00	13,857.65	11,945.00	38.28	38.46	-91.30	-1,881.58	697.38	1,320.36	1,245.02	75.34	17.526	
13,900.00	11,915.00	13,936.51	11,945.00	39.13	39.30	-91.30	-1,960.44	698.20	1,320.36	1,243.32	77.04	17.138	
13,921.14	11,915.00	13,957.65	11,945.00	39.36	39.53	-91.30	-1,981.57	698.42	1,320.36	1,242.85	77.51	17.036	
14,000.00	11,915.00	14,036.51	11,945.00	40.22	40.39	-91.30	-2,060.43	699.24	1,320.36	1,241.11	79.25	16.661	
14,021.14	11,915.00	14,057.65	11,945.00	40.45	40.62	-91.30	-2,081.56	699.46	1,320.36	1,240.64	79.72	16.562	
14,100.00	11,915.00	14,136.51	11,945.00	41.33	41.50	-91.30	-2,160.43	700.28	1,320.36	1,238.86	81.50	16.201	
14,121.14	11,915.00	14,157.65	11,945.00	41.57	41.74	-91.30	-2,181.56	700.50	1,320.36	1,238.38	81.98	16.106	
14,200.00	11,915.00	14,236.51	11,945.00	42.46	42.63	-91.30	-2,260.42	701.32	1,320.36	1,236.57	83.79	15.758	
14,221.14	11,915.00	14,257.65	11,945.00	42.71	42.87	-91.30	-2,281.55	701.53	1,320.36	1,236.08	84.28	15.666	
14,300.00	11,915.00	14,336.51	11,945.00	43.62	43.77	-91.30	-2,360.41	702.35	1,320.36	1,234.24	86.12	15.332	
14,321.14	11,915.00	14,357.65	11,945.00	43.86	44.02	-91.30	-2,381.55	702.57	1,320.36	1,233.74	86.62	15.244	
14,400.00	11,915.00	14,436.51	11,945.00	44.78	44.94	-91.30	-2,460.41	703.39	1,320.36	1,231.88	88.48	14.923	
14,421.14	11,915.00	14,457.65	11,945.00	45.03	45.19	-91.30	-2,481.54	703.61	1,320.36	1,231.38	88.98	14.838	
14,500.00	11,915.00	14,536.51	11,945.00	45.97	46.12	-91.30	-2,560.40	704.43	1,320.36	1,229.49	90.87	14.530	
14,521.14	11,915.00	14,557.65	11,945.00	46.22	46.37	-91.30	-2,581.54	704.65	1,320.36	1,228.98	91.38	14.449	
14,600.00	11,915.00	14,636.51	11,945.00	47.17	47.31	-91.30	-2,660.40	705.47	1,320.36	1,227.06	93.29	14.153	
14,621.14	11,915.00	14,657.65	11,945.00	47.42	47.57	-91.30	-2,681.53	705.69	1,320.36	1,226.55	93.81	14.075	
14,700.00	11,915.00	14,736.51	11,945.00	48.38	48.52	-91.30	-2,760.39	706.51	1,320.36	1,224.62	95.74	13.791	
14,721.14	11,915.00	14,757.65	11,945.00	48.64	48.78	-91.30	-2,781.53	706.73	1,320.36	1,224.09	96.26	13.716	
14,800.00	11,915.00	14,836.51	11,945.00	49.60	49.74	-91.30	-2,860.39	707.55	1,320.36	1,222.14	98.22	13.443	
14,821.14	11,915.00	14,857.65	11,945.00	49.87	50.00	-91.30	-2,881.52	707.76	1,320.36	1,221.62	98.74	13.372	
14,900.00	11,915.00	14,936.51	11,945.00	50.84	50.98	-91.30	-2,960.38	708.58	1,320.36	1,219.65	100.71	13.110	

CC - Min center to center distance or convergent point, SF - min separation factor, ES - min ellipse separation





**Phoenix**  
Anticollision Report



<b>Company:</b>	Texas Standard Oil	<b>Local Co-ordinate Reference:</b>	Well 318H
<b>Project:</b>	Lea County, NM (NAD 83 - NME)	<b>TVD Reference:</b>	RKB @ 3902.00usft
<b>Reference Site:</b>	Vindicator Caynon State Unit	<b>MD Reference:</b>	RKB @ 3902.00usft
<b>Site Error:</b>	0.00	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	318H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USAEDMDB
<b>Reference Design:</b>	Plan 1 04-26-23	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 317H - OH - Plan 1 04-26-23											Offset Site Error:	0.00 usft	
Survey Program: 0-MWD+HRGM											Offset Well Error:	1.00 usft	
Reference		Offset		Semi Major Axis		Highside Tooface (")	Offset Wellbore Center		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centers (usft)	Between Ellipses (usft)			
14,921.14	11,915.00	14,957.65	11,945.00	51.10	51.24	-91.30	-2,981.52	708.80	1,320.36	1,219.11	101.24	13.041	
15,000.00	11,915.00	15,036.51	11,945.00	52.09	52.22	-91.30	-3,060.38	709.62	1,320.36	1,217.13	103.23	12.791	
15,021.14	11,915.00	15,057.65	11,945.00	52.35	52.48	-91.30	-3,081.51	709.84	1,320.36	1,216.59	103.76	12.725	
15,100.00	11,915.00	15,136.51	11,945.00	53.35	53.47	-91.30	-3,160.37	710.66	1,320.36	1,214.59	105.77	12.484	
15,121.14	11,915.00	15,157.65	11,945.00	53.61	53.74	-91.30	-3,181.51	710.88	1,320.36	1,214.05	106.31	12.420	
15,200.00	11,915.00	15,236.51	11,945.00	54.61	54.74	-91.30	-3,260.37	711.70	1,320.36	1,212.03	108.32	12.189	
15,221.14	11,915.00	15,257.65	11,945.00	54.88	55.01	-91.30	-3,281.50	711.92	1,320.36	1,211.49	108.87	12.128	
15,300.00	11,915.00	15,336.51	11,945.00	55.89	56.01	-91.30	-3,360.36	712.74	1,320.36	1,209.46	110.89	11.906	
15,321.14	11,915.00	15,357.65	11,945.00	56.16	56.28	-91.30	-3,381.49	712.96	1,320.36	1,208.92	111.44	11.848	
15,400.00	11,915.00	15,436.51	11,945.00	57.17	57.29	-91.30	-3,460.36	713.77	1,320.36	1,206.87	113.48	11.635	
15,421.14	11,915.00	15,457.65	11,945.00	57.45	57.56	-91.30	-3,481.49	713.99	1,320.36	1,206.32	114.03	11.579	
15,500.00	11,915.00	15,536.51	11,945.00	58.47	58.58	-91.30	-3,560.35	714.81	1,320.36	1,204.27	116.09	11.374	
15,521.14	11,915.00	15,557.65	11,945.00	58.74	58.86	-91.30	-3,581.48	715.03	1,320.36	1,203.72	116.64	11.320	
15,600.00	11,915.00	15,636.51	11,945.00	59.77	59.88	-91.30	-3,660.34	715.85	1,320.36	1,201.65	118.70	11.123	
15,621.14	11,915.00	15,657.65	11,945.00	60.04	60.15	-91.30	-3,681.48	716.07	1,320.36	1,201.10	119.26	11.071	
15,700.00	11,915.00	15,736.51	11,945.00	61.07	61.18	-91.30	-3,760.34	716.89	1,320.36	1,199.02	121.33	10.882	
15,721.14	11,915.00	15,757.65	11,945.00	61.35	61.46	-91.30	-3,781.47	717.11	1,320.36	1,198.46	121.89	10.832	
15,800.00	11,915.00	15,836.51	11,945.00	62.38	62.49	-91.30	-3,860.33	717.93	1,320.36	1,196.38	123.98	10.650	
15,821.14	11,915.00	15,857.65	11,945.00	62.66	62.77	-91.30	-3,881.47	718.15	1,320.36	1,195.82	124.54	10.602	
15,900.00	11,915.00	15,936.51	11,945.00	63.70	63.81	-91.30	-3,960.33	718.97	1,320.36	1,193.73	126.63	10.427	
15,921.14	11,915.00	15,957.65	11,945.00	63.98	64.09	-91.30	-3,981.46	719.19	1,320.36	1,193.16	127.19	10.381	
16,000.00	11,915.00	16,036.51	11,945.00	65.03	65.13	-91.30	-4,060.32	720.00	1,320.36	1,191.06	129.29	10.212	
16,021.14	11,915.00	16,057.65	11,945.00	65.31	65.41	-91.30	-4,081.46	720.22	1,320.36	1,190.50	129.86	10.168	
16,100.00	11,915.00	16,136.51	11,945.00	66.36	66.46	-91.30	-4,160.32	721.04	1,320.36	1,188.39	131.97	10.005	
16,121.14	11,915.00	16,157.65	11,945.00	66.64	66.74	-91.30	-4,181.45	721.26	1,320.36	1,187.82	132.54	9.962	
16,200.00	11,915.00	16,236.51	11,945.00	67.69	67.79	-91.30	-4,260.31	722.08	1,320.35	1,185.70	134.65	9.806	
16,221.14	11,915.00	16,257.65	11,945.00	67.97	68.07	-91.30	-4,281.45	722.30	1,320.35	1,185.13	135.22	9.764	
16,300.00	11,915.00	16,336.51	11,945.00	69.03	69.13	-91.30	-4,360.31	723.12	1,320.35	1,183.01	137.35	9.613	
16,321.14	11,915.00	16,357.65	11,945.00	69.31	69.41	-91.30	-4,381.44	723.34	1,320.35	1,182.44	137.92	9.574	
16,400.00	11,915.00	16,436.51	11,945.00	70.37	70.47	-91.30	-4,460.30	724.16	1,320.35	1,180.31	140.05	9.428	
16,421.14	11,915.00	16,457.65	11,945.00	70.66	70.75	-91.30	-4,481.44	724.38	1,320.35	1,179.74	140.62	9.390	
16,500.00	11,915.00	16,536.51	11,945.00	71.72	71.82	-91.30	-4,560.30	725.20	1,320.35	1,177.60	142.76	9.249	
16,521.14	11,915.00	16,557.65	11,945.00	72.01	72.10	-91.30	-4,581.43	725.42	1,320.35	1,177.02	143.33	9.212	
16,600.00	11,915.00	16,636.51	11,945.00	73.07	73.17	-91.30	-4,660.29	726.23	1,320.35	1,174.88	145.47	9.076	
16,621.14	11,915.00	16,657.65	11,945.00	73.36	73.45	-91.30	-4,681.42	726.45	1,320.35	1,174.31	146.05	9.041	
16,700.00	11,915.00	16,736.51	11,945.00	74.43	74.52	-91.30	-4,760.29	727.27	1,320.35	1,172.16	148.20	8.910	
16,721.14	11,915.00	16,757.65	11,945.00	74.72	74.81	-91.30	-4,781.42	727.49	1,320.35	1,171.58	148.77	8.875	
16,800.00	11,915.00	16,836.51	11,945.00	75.79	75.88	-91.30	-4,860.28	728.31	1,320.35	1,169.43	150.93	8.748	
16,821.14	11,915.00	16,857.65	11,945.00	76.08	76.16	-91.30	-4,881.41	728.53	1,320.35	1,168.85	151.50	8.715	
16,900.00	11,915.00	16,936.51	11,945.00	77.15	77.24	-91.30	-4,960.27	729.35	1,320.35	1,166.69	153.66	8.593	
16,921.14	11,915.00	16,957.65	11,945.00	77.44	77.53	-91.30	-4,981.41	729.57	1,320.35	1,166.11	154.24	8.560	
17,000.00	11,915.00	17,036.51	11,945.00	78.52	78.60	-91.30	-5,060.27	730.39	1,320.35	1,163.95	156.41	8.442	
17,021.14	11,915.00	17,057.65	11,945.00	78.81	78.89	-91.30	-5,081.40	730.61	1,320.35	1,163.37	156.99	8.411	
17,100.00	11,915.00	17,136.51	11,945.00	79.89	79.97	-91.30	-5,160.26	731.43	1,320.35	1,161.20	159.15	8.296	
17,121.14	11,915.00	17,157.65	11,945.00	80.18	80.26	-91.30	-5,181.40	731.65	1,320.35	1,160.62	159.74	8.266	
17,200.00	11,915.00	17,236.51	11,945.00	81.26	81.34	-91.30	-5,260.26	732.46	1,320.35	1,158.45	161.91	8.155	

CC - Min center to center distance or convergent point, SF - min separation factor, ES - min ellipse separation





# Phoenix Anticollision Report

<b>Company:</b>	Texas Standard Oil	<b>Local Co-ordinate Reference:</b>	Well 318H
<b>Project:</b>	Lea County, NM (NAD 83 - NME)	<b>TVD Reference:</b>	RKB @ 3902.00usft
<b>Reference Site:</b>	Vindicator Caynon State Unit	<b>MD Reference:</b>	RKB @ 3902.00usft
<b>Site Error:</b>	0.00	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	318H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USAEDMDB
<b>Reference Design:</b>	Plan 1 04-26-23	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 317H - OH - Plan 1 04-26-23											Offset Site Error:	0.00 usft	
Survey Program: 0-MWD+HRGM											Offset Well Error:	1.00 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Center		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centers (usft)	Between Ellipses (usft)			
17,221.14	11,915.00	17,257.65	11,945.00	81.55	81.63	-91.30	-5,281.39	732.68	1,320.35	1,157.86	162.49	8.126	
17,300.00	11,915.00	17,336.51	11,945.00	82.63	82.71	-91.30	-5,360.25	733.50	1,320.35	1,155.69	164.67	8.018	
17,321.14	11,915.00	17,357.65	11,945.00	82.92	83.00	-91.30	-5,381.39	733.72	1,320.35	1,155.10	165.25	7.990	
17,400.00	11,915.00	17,436.51	11,945.00	84.01	84.09	-91.30	-5,460.25	734.54	1,320.35	1,152.92	167.43	7.886	
17,421.14	11,915.00	17,457.65	11,945.00	84.30	84.38	-91.30	-5,481.38	734.76	1,320.35	1,152.34	168.01	7.859	
17,500.00	11,915.00	17,536.51	11,945.00	85.39	85.47	-91.30	-5,560.24	735.58	1,320.35	1,150.15	170.20	7.758	
17,521.14	11,915.00	17,557.65	11,945.00	85.68	85.76	-91.30	-5,581.38	735.80	1,320.35	1,149.57	170.78	7.731	
17,600.00	11,915.00	17,636.51	11,945.00	86.77	86.85	-91.30	-5,660.24	736.62	1,320.35	1,147.38	172.97	7.633	
17,621.14	11,915.00	17,657.65	11,945.00	87.06	87.14	-91.30	-5,681.37	736.84	1,320.35	1,146.80	173.56	7.608	
17,700.00	11,915.00	17,736.51	11,945.00	88.15	88.23	-91.30	-5,760.23	737.66	1,320.35	1,144.60	175.75	7.513	
17,721.14	11,915.00	17,757.65	11,945.00	88.45	88.52	-91.30	-5,781.37	737.88	1,320.35	1,144.02	176.33	7.488	
17,800.00	11,915.00	17,836.51	11,945.00	89.54	89.61	-91.30	-5,860.23	738.69	1,320.35	1,141.82	178.53	7.396	
17,821.14	11,915.00	17,857.65	11,945.00	89.83	89.91	-91.30	-5,881.36	738.91	1,320.35	1,141.24	179.12	7.371	
17,900.00	11,915.00	17,936.51	11,945.00	90.93	91.00	-91.30	-5,960.22	739.73	1,320.35	1,139.04	181.31	7.282	
17,921.14	11,915.00	17,957.65	11,945.00	91.22	91.29	-91.30	-5,981.35	739.95	1,320.35	1,138.45	181.90	7.259	
18,000.00	11,915.00	18,036.51	11,945.00	92.32	92.39	-91.30	-6,060.22	740.77	1,320.35	1,136.25	184.10	7.172	
18,021.14	11,915.00	18,057.65	11,945.00	92.61	92.68	-91.30	-6,081.35	740.99	1,320.35	1,135.66	184.69	7.149	
18,100.00	11,915.00	18,136.51	11,945.00	93.71	93.78	-91.30	-6,160.21	741.81	1,320.35	1,133.46	186.89	7.065	
18,121.14	11,915.00	18,157.65	11,945.00	94.00	94.08	-91.30	-6,181.34	742.03	1,320.35	1,132.87	187.48	7.043	
18,200.00	11,915.00	18,236.51	11,945.00	95.10	95.17	-91.30	-6,260.20	742.85	1,320.35	1,130.66	189.69	6.961	
18,221.14	11,915.00	18,257.65	11,945.00	95.40	95.47	-91.30	-6,281.34	743.07	1,320.35	1,130.07	190.28	6.939	
18,300.00	11,915.00	18,336.51	11,945.00	96.50	96.57	-91.30	-6,360.20	743.89	1,320.35	1,127.87	192.49	6.859	
18,321.14	11,915.00	18,357.65	11,945.00	96.79	96.86	-91.30	-6,381.33	744.10	1,320.35	1,127.27	193.08	6.838	
18,400.00	11,915.00	18,436.51	11,945.00	97.90	97.96	-91.30	-6,460.19	744.92	1,320.35	1,125.06	195.29	6.761	
18,421.14	11,915.00	18,457.65	11,945.00	98.19	98.26	-91.30	-6,481.33	745.14	1,320.35	1,124.47	195.88	6.741	
18,500.00	11,915.00	18,536.51	11,945.00	99.29	99.36	-91.30	-6,560.19	745.96	1,320.35	1,122.26	198.09	6.665	
18,521.14	11,915.00	18,557.65	11,945.00	99.59	99.66	-91.30	-6,581.32	746.18	1,320.35	1,121.67	198.68	6.645	
18,600.00	11,915.00	18,636.51	11,945.00	100.70	100.76	-91.30	-6,660.18	747.00	1,320.35	1,119.45	200.90	6.572	
18,621.14	11,915.00	18,657.65	11,945.00	100.99	101.06	-91.30	-6,681.32	747.22	1,320.35	1,118.86	201.49	6.553	
18,700.00	11,915.00	18,736.51	11,945.00	102.10	102.16	-91.30	-6,760.18	748.04	1,320.35	1,116.64	203.71	6.482	
18,721.14	11,915.00	18,757.65	11,945.00	102.39	102.46	-91.30	-6,781.31	748.26	1,320.35	1,116.05	204.30	6.463	
18,800.00	11,915.00	18,836.51	11,945.00	103.50	103.56	-91.30	-6,860.17	749.08	1,320.35	1,113.83	206.52	6.393	
18,821.14	11,915.00	18,857.65	11,945.00	103.80	103.86	-91.30	-6,881.31	749.30	1,320.35	1,113.24	207.11	6.375	
18,900.00	11,915.00	18,936.51	11,945.00	104.90	104.97	-91.30	-6,960.17	750.12	1,320.35	1,111.02	209.33	6.307	
18,921.14	11,915.00	18,957.65	11,945.00	105.20	105.26	-91.30	-6,981.30	750.33	1,320.35	1,110.42	209.93	6.290	
19,000.00	11,915.00	19,036.51	11,945.00	106.31	106.37	-91.30	-7,060.16	751.15	1,320.35	1,108.20	212.15	6.224	
19,021.14	11,915.00	19,057.65	11,945.00	106.61	106.67	-91.30	-7,081.30	751.37	1,320.35	1,107.60	212.75	6.206	
19,100.00	11,915.00	19,136.51	11,945.00	107.72	107.78	-91.30	-7,160.16	752.19	1,320.35	1,105.38	214.97	6.142	
19,121.14	11,915.00	19,157.65	11,945.00	108.01	108.08	-91.30	-7,181.29	752.41	1,320.35	1,104.78	215.57	6.125	
19,200.00	11,915.00	19,236.51	11,945.00	109.12	109.19	-91.30	-7,260.15	753.23	1,320.35	1,102.56	217.79	6.062	
19,221.14	11,915.00	19,257.65	11,945.00	109.42	109.48	-91.30	-7,281.28	753.45	1,320.35	1,101.96	218.39	6.046	
19,300.00	11,915.00	19,336.51	11,945.00	110.53	110.59	-91.30	-7,360.15	754.27	1,320.35	1,099.73	220.61	5.985	
19,321.14	11,915.00	19,357.65	11,945.00	110.83	110.89	-91.30	-7,381.28	754.49	1,320.35	1,099.14	221.21	5.969	
19,400.00	11,915.00	19,436.51	11,945.00	111.94	112.00	-91.30	-7,460.14	755.31	1,320.35	1,096.91	223.44	5.909	
19,421.14	11,915.00	19,457.65	11,945.00	112.24	112.30	-91.30	-7,481.27	755.53	1,320.35	1,096.31	224.04	5.893	

CC - Min center to center distance or convergent point, SF - min separation factor, ES - min ellipse separation





# Phoenix Anticollision Report

<b>Company:</b>	Texas Standard Oil	<b>Local Co-ordinate Reference:</b>	Well 318H
<b>Project:</b>	Lea County, NM (NAD 83 - NME)	<b>TVD Reference:</b>	RKB @ 3902.00usft
<b>Reference Site:</b>	Vindicator Caynon State Unit	<b>MD Reference:</b>	RKB @ 3902.00usft
<b>Site Error:</b>	0.00	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	318H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USAEDMDB
<b>Reference Design:</b>	Plan 1 04-26-23	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 317H - OH - Plan 1 04-26-23													Offset Site Error:	0.00 usft
Survey Program: O-MWD+HRGM													Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Center		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centers (usft)	Between Ellipses (usft)				
19,500.00	11,915.00	19,536.51	11,945.00	113.35	113.41	-91.30	-7,560.13	756.34	1,320.35	1,094.08	226.27	5.835		
19,521.14	11,915.00	19,557.65	11,945.00	113.65	113.71	-91.30	-7,581.27	756.56	1,320.35	1,093.48	226.87	5.820		
19,600.00	11,915.00	19,636.51	11,945.00	114.77	114.83	-91.30	-7,660.13	757.38	1,320.35	1,091.25	229.10	5.763		
19,621.14	11,915.00	19,657.65	11,945.00	115.07	115.12	-91.30	-7,681.26	757.60	1,320.35	1,090.65	229.70	5.748		
19,700.00	11,915.00	19,736.51	11,945.00	116.18	116.24	-91.30	-7,760.12	758.42	1,320.35	1,088.42	231.93	5.693		
19,721.14	11,915.00	19,757.65	11,945.00	116.48	116.54	-91.30	-7,781.26	758.64	1,320.35	1,087.82	232.53	5.678		
19,800.00	11,915.00	19,836.51	11,945.00	117.59	117.65	-91.30	-7,860.12	759.46	1,320.35	1,085.59	234.76	5.624		
19,821.14	11,915.00	19,857.65	11,945.00	117.89	117.95	-91.30	-7,881.25	759.68	1,320.35	1,084.99	235.36	5.610		
19,900.00	11,915.00	19,936.51	11,945.00	119.01	119.07	-91.30	-7,960.11	760.50	1,320.35	1,082.75	237.60	5.557		
19,921.14	11,915.00	19,957.65	11,945.00	119.31	119.36	-91.30	-7,981.25	760.72	1,320.35	1,082.15	238.20	5.543		
20,000.00	11,915.00	20,036.51	11,945.00	120.43	120.48	-91.30	-8,060.11	761.54	1,320.35	1,079.91	240.43	5.492		
20,021.14	11,915.00	20,057.65	11,945.00	120.73	120.78	-91.30	-8,081.24	761.76	1,320.35	1,079.31	241.03	5.478		
20,100.00	11,915.00	20,136.51	11,945.00	121.84	121.90	-91.30	-8,160.10	762.57	1,320.35	1,077.08	243.27	5.427		
20,121.14	11,915.00	20,157.65	11,945.00	122.14	122.20	-91.30	-8,181.24	762.79	1,320.35	1,076.48	243.87	5.414		
20,200.00	11,915.00	20,236.51	11,945.00	123.26	123.31	-91.30	-8,260.10	763.61	1,320.35	1,074.24	246.11	5.365		
20,221.14	11,915.00	20,257.65	11,945.00	123.56	123.61	-91.30	-8,281.23	763.83	1,320.35	1,073.64	246.71	5.352		
20,300.00	11,915.00	20,336.51	11,945.00	124.68	124.73	-91.30	-8,360.09	764.65	1,320.35	1,071.40	248.95	5.304		
20,321.14	11,915.00	20,357.65	11,945.00	124.98	125.03	-91.30	-8,381.23	764.87	1,320.35	1,070.80	249.55	5.291		
20,400.00	11,915.00	20,436.51	11,945.00	126.10	126.15	-91.30	-8,460.09	765.69	1,320.35	1,068.55	251.79	5.244		
20,421.14	11,915.00	20,457.65	11,945.00	126.40	126.45	-91.30	-8,481.22	765.91	1,320.35	1,067.95	252.39	5.231		
20,500.00	11,915.00	20,536.51	11,945.00	127.52	127.57	-91.30	-8,560.08	766.73	1,320.35	1,065.71	254.64	5.185		
20,521.14	11,915.00	20,557.65	11,945.00	127.82	127.87	-91.30	-8,581.21	766.95	1,320.35	1,065.11	255.24	5.173		
20,600.00	11,915.00	20,636.51	11,945.00	128.94	128.99	-91.30	-8,660.07	767.77	1,320.35	1,062.87	257.48	5.128		
20,621.14	11,915.00	20,657.65	11,945.00	129.24	129.29	-91.30	-8,681.21	767.99	1,320.35	1,062.26	258.08	5.116		
20,700.00	11,915.00	20,736.51	11,945.00	130.36	130.41	-91.30	-8,760.07	768.80	1,320.35	1,060.02	260.33	5.072		
20,721.14	11,915.00	20,757.65	11,945.00	130.66	130.71	-91.30	-8,781.20	769.02	1,320.35	1,059.42	260.93	5.060		
20,800.00	11,915.00	20,836.51	11,945.00	131.78	131.83	-91.30	-8,860.06	769.84	1,320.35	1,057.17	263.17	5.017		
20,821.14	11,915.00	20,857.65	11,945.00	132.08	132.13	-91.30	-8,881.20	770.06	1,320.35	1,056.57	263.78	5.006		
20,900.00	11,915.00	20,936.51	11,945.00	133.20	133.25	-91.30	-8,960.06	770.88	1,320.34	1,054.32	266.02	4.963		
20,921.14	11,915.00	20,957.65	11,945.00	133.50	133.55	-91.30	-8,981.19	771.10	1,320.34	1,053.72	266.62	4.952		
21,000.00	11,915.00	21,036.51	11,945.00	134.63	134.68	-91.30	-9,060.05	771.92	1,320.34	1,051.47	268.87	4.911		
21,021.14	11,915.00	21,057.65	11,945.00	134.93	134.98	-91.30	-9,081.19	772.14	1,320.34	1,050.87	269.47	4.900		
21,100.00	11,915.00	21,136.51	11,945.00	136.05	136.10	-91.30	-9,160.05	772.96	1,320.34	1,048.62	271.72	4.859		
21,121.14	11,915.00	21,157.65	11,945.00	136.35	136.40	-91.30	-9,181.18	773.18	1,320.34	1,048.02	272.33	4.848		
21,200.00	11,915.00	21,236.51	11,945.00	137.47	137.52	-91.30	-9,260.04	774.00	1,320.34	1,045.77	274.57	4.809		
21,221.14	11,915.00	21,257.65	11,945.00	137.78	137.82	-91.30	-9,281.18	774.22	1,320.34	1,045.17	275.18	4.798		
21,300.00	11,915.00	21,336.51	11,945.00	138.90	138.95	-91.30	-9,360.04	775.03	1,320.34	1,042.92	277.43	4.759		
21,321.14	11,915.00	21,357.65	11,945.00	139.20	139.25	-91.30	-9,381.17	775.25	1,320.34	1,042.31	278.03	4.749		
21,400.00	11,915.00	21,436.51	11,945.00	140.33	140.37	-91.30	-9,460.03	776.07	1,320.34	1,040.06	280.28	4.711		
21,421.14	11,915.00	21,457.65	11,945.00	140.63	140.67	-91.30	-9,481.17	776.29	1,320.34	1,039.46	280.88	4.701		
21,500.00	11,915.00	21,536.51	11,945.00	141.75	141.80	-91.30	-9,560.03	777.11	1,320.34	1,037.21	283.14	4.663		
21,521.14	11,915.00	21,557.65	11,945.00	142.05	142.10	-91.30	-9,581.16	777.33	1,320.34	1,036.60	283.74	4.653		
21,600.00	11,915.00	21,636.51	11,945.00	143.18	143.22	-91.30	-9,660.02	778.15	1,320.34	1,034.35	285.99	4.617		
21,621.14	11,915.00	21,657.65	11,945.00	143.48	143.53	-91.30	-9,681.16	778.37	1,320.34	1,033.75	286.60	4.607		
21,700.00	11,915.00	21,736.51	11,945.00	144.60	144.65	-91.30	-9,760.02	779.19	1,320.34	1,031.49	288.85	4.571		
21,721.14	11,915.00	21,757.65	11,945.00	144.91	144.95	-91.30	-9,781.15	779.41	1,320.34	1,030.89	289.45	4.562		

CC - Min center to center distance or convergent point, SF - min separation factor, ES - min ellipse separation





**Phoenix**  
Anticollision Report



<b>Company:</b>	Texas Standard Oil	<b>Local Co-ordinate Reference:</b>	Well 318H
<b>Project:</b>	Lea County, NM (NAD 83 - NME)	<b>TVD Reference:</b>	RKB @ 3902.00usft
<b>Reference Site:</b>	Vindicator Caynon State Unit	<b>MD Reference:</b>	RKB @ 3902.00usft
<b>Site Error:</b>	0.00	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	318H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USAEDMDB
<b>Reference Design:</b>	Plan 1 04-26-23	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 317H - OH - Plan 1 04-26-23												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Center		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centers (usft)	Between Ellipses (usft)			
21,800.00	11,915.00	21,836.51	11,945.00	146.03	146.08	-91.30	-9,860.01	780.23	1,320.34	1,028.64	291.71	4.526	
21,821.14	11,915.00	21,857.65	11,945.00	146.33	146.38	-91.30	-9,881.14	780.45	1,320.34	1,028.03	292.31	4.517	
21,900.00	11,915.00	21,936.51	11,945.00	147.46	147.51	-91.30	-9,960.00	781.26	1,320.34	1,025.78	294.56	4.482	
21,921.14	11,915.00	21,957.65	11,945.00	147.76	147.81	-91.30	-9,981.14	781.48	1,320.34	1,025.17	295.17	4.473	
22,000.00	11,915.00	22,036.51	11,945.00	148.89	148.93	-91.30	-10,060.00	782.30	1,320.34	1,022.92	297.42	4.439	
22,021.14	11,915.00	22,057.65	11,945.00	149.19	149.24	-91.30	-10,081.13	782.52	1,320.34	1,022.31	298.03	4.430	
22,100.00	11,915.00	22,136.51	11,945.00	150.32	150.36	-91.30	-10,159.99	783.34	1,320.34	1,020.06	300.28	4.397	
22,170.36	11,915.00	22,206.87	11,945.00	151.32	151.37	-91.30	-10,230.35	784.07	1,320.34	1,018.04	302.30	4.368	
22,198.18	11,915.00	22,232.76	11,945.00	151.72	151.74	-91.30	-10,256.24	784.34	1,320.34	1,017.28	303.06	4.357	

CC - Min center to center distance or convergent point, SF - min separation factor, ES - min ellipse separation





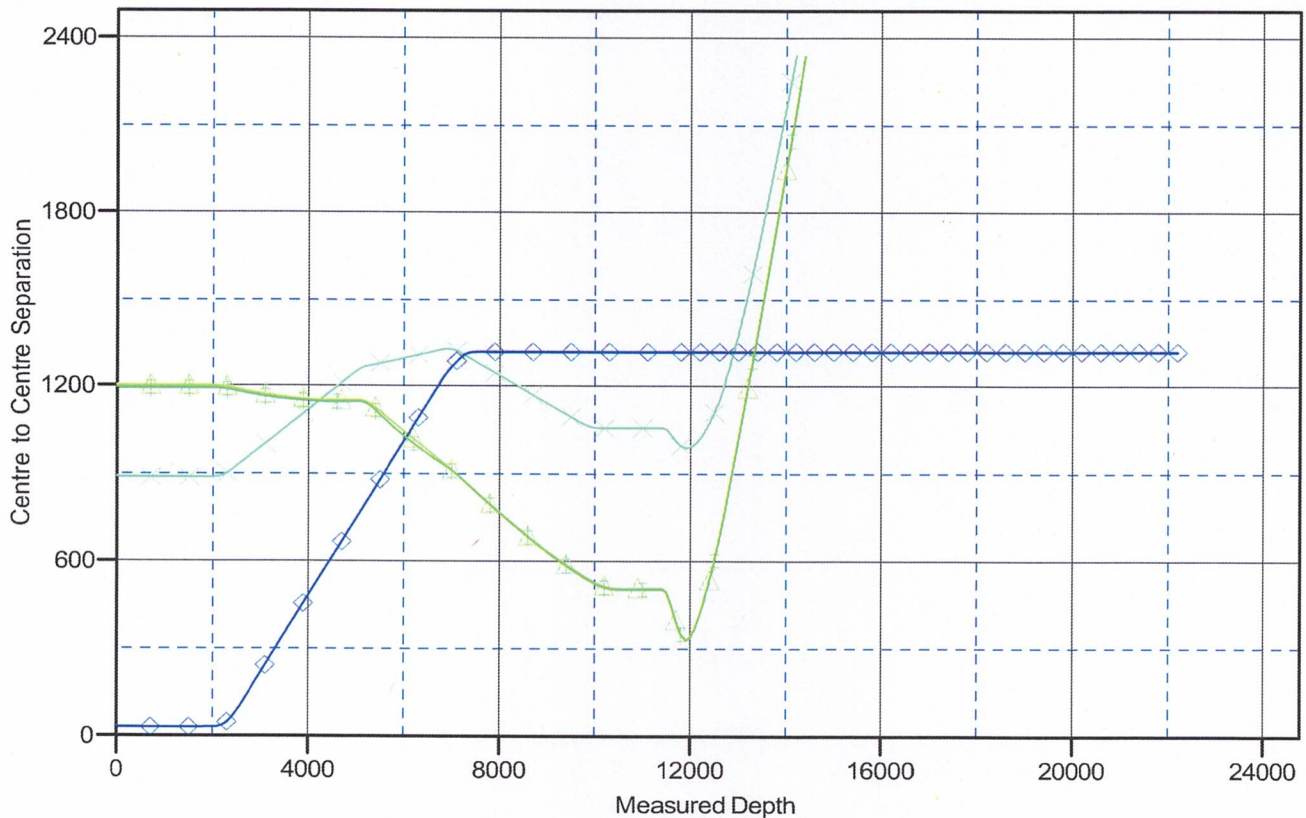
# Phoenix Anticollision Report

<b>Company:</b>	Texas Standard Oil	<b>Local Co-ordinate Reference:</b>	Well 318H
<b>Project:</b>	Lea County, NM (NAD 83 - NME)	<b>TVD Reference:</b>	RKB @ 3902.00usft
<b>Reference Site:</b>	Vindicator Caynon State Unit	<b>MD Reference:</b>	RKB @ 3902.00usft
<b>Site Error:</b>	0.00	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	318H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USAEDMDB
<b>Reference Design:</b>	Plan 1 04-26-23	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to RKB @ 3902.00usft  
 Offset Depths are relative to Offset Datum  
 Central Meridian is 104° 19' 60.000000 W °

Coordinates are relative to: 318H  
 Coordinate System is US State Plane 1983, New Mexico Eastern Zone  
 Grid Convergence at Surface is: 0.526°

## Ladder Plot



### LEGEND

- ✕ 2H, OH, Plan 1 02-15-23 V0
- ◆ 317H, OH, Plan 1 04-26-23 V0
- ▲ 4H, OH, Plan 1 02-15-23 V0
- ▲ 3H, OH, Plan 1 02-15-23 V0

CC - Min center to center distance or covergent point, SF - min separation factor, ES - min ellipse separation



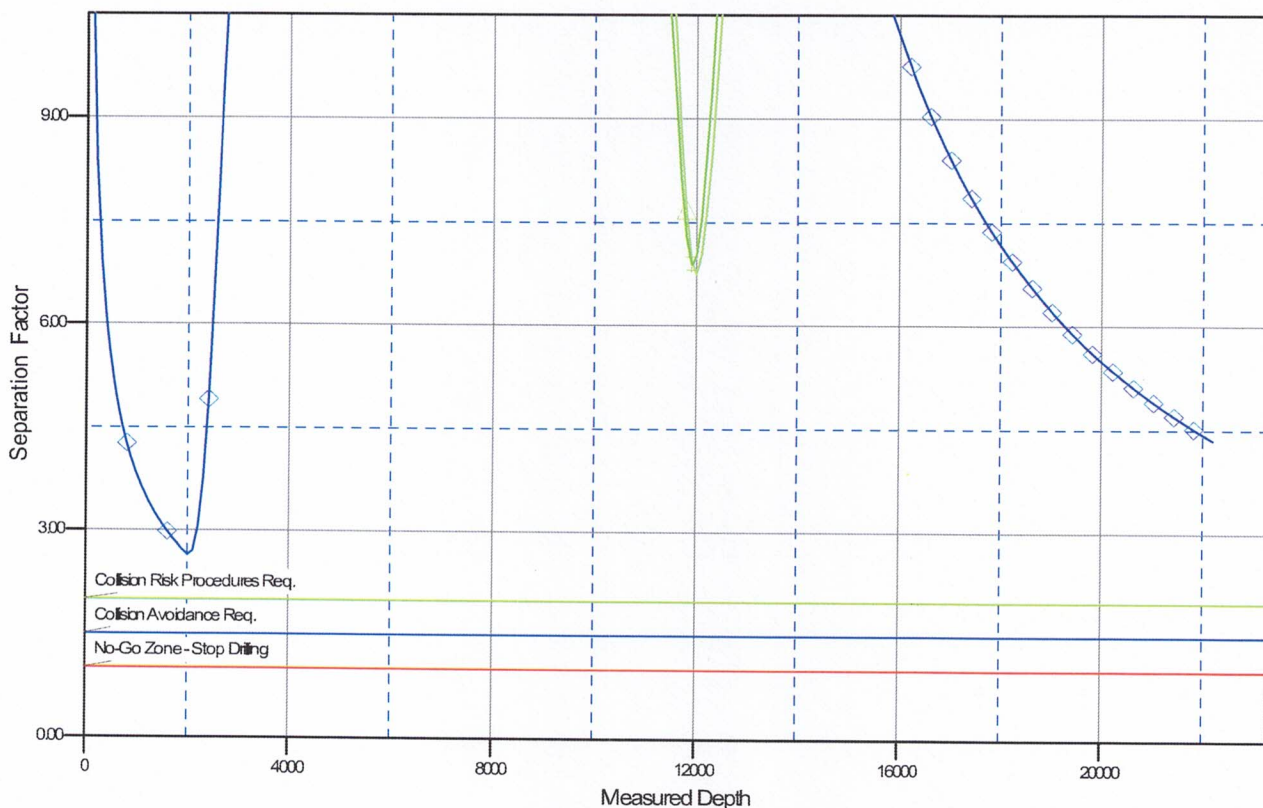


<b>Company:</b>	Texas Standard Oil	<b>Local Co-ordinate Reference:</b>	Well 318H
<b>Project:</b>	Lea County, NM (NAD 83 - NME)	<b>TVD Reference:</b>	RKB @ 3902.00usft
<b>Reference Site:</b>	Vindicator Caynon State Unit	<b>MD Reference:</b>	RKB @ 3902.00usft
<b>Site Error:</b>	0.00	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	318H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	1.00	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USAEDMDB
<b>Reference Design:</b>	Plan 1 04-26-23	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to RKB @ 3902.00usft  
 Offset Depths are relative to Offset Datum  
 Central Meridian is 104° 19' 60.000000 W °

Coordinates are relative to: 318H  
 Coordinate System is US State Plane 1983, New Mexico Eastern Zone  
 Grid Convergence at Surface is: 0.526°

### Separation Factor Plot

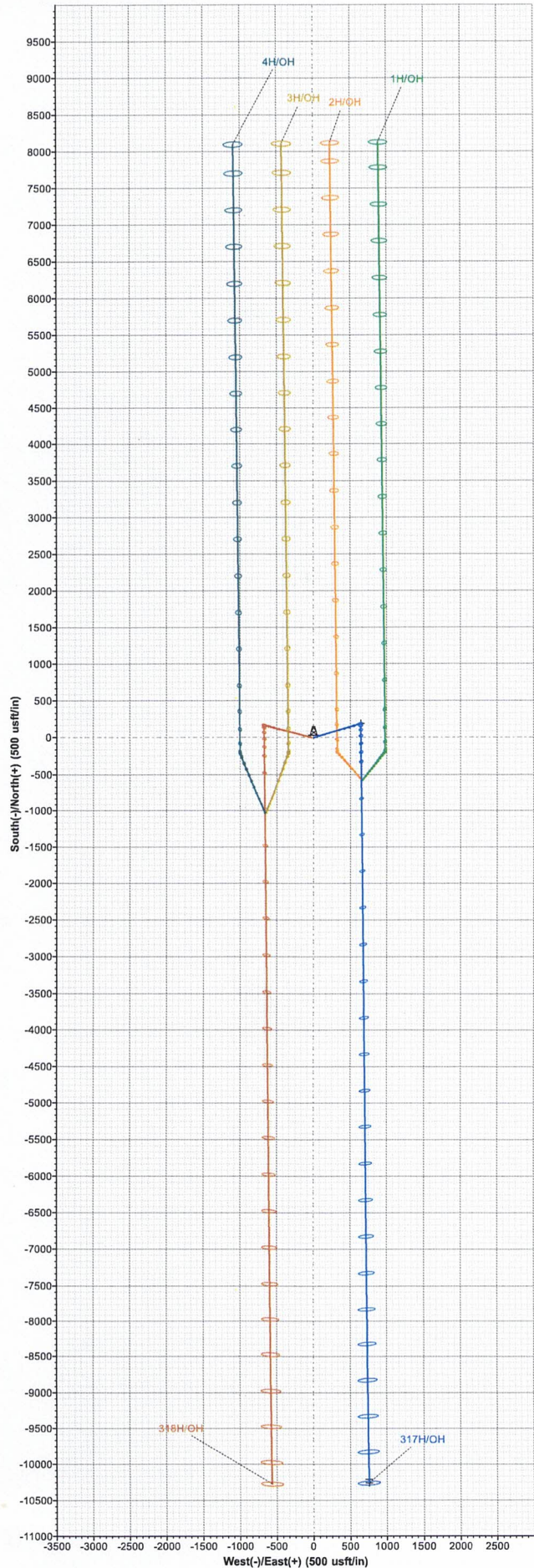
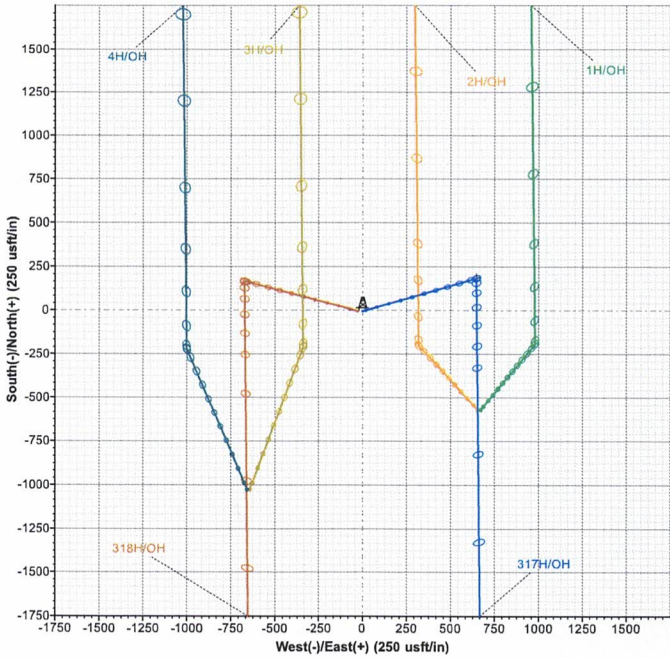
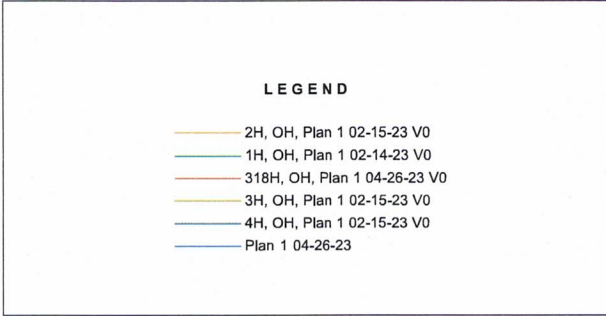


LEGEND

- ◆ 2H, OH, Plan 1 02-15-23 V0
- ◆ 317H, OH, Plan 1 04-26-23 V0
- ◆ 4H, OH, Plan 1 02-15-23 V0
- ◆ 3H, OH, Plan 1 02-15-23 V0



Project: Lea County, NM (NAD 83 - NME)  
 Site: Vindicator Caynon State Unit  
 Rig: TBD



ATTACHMENT E